

1. [-/3 Points]

DETAILS

SPRECALC7 6.3.007.

MY NOTES

ASK YOUR TEACHER

Find the reference angle for the given angle.

(a) 205° $^\circ$ (b) 1010° $^\circ$ (c) -135° $^\circ$

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2. [-/1 Points]

DETAILS

SPRECALC7 6.3.014.

MY NOTES

ASK YOUR TEACHER

Find the exact value of the trigonometric function. (If an answer is undefined, enter UNDEFINED.)

 $\sin(300^\circ)$

Need Help?

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3. [-/1 Points]

DETAILS

SPRECALC7 6.3.021.

MY NOTES

ASK YOUR TEACHER

Find the exact value of the trigonometric function. (If an answer is undefined, enter UNDEFINED.)

 $\cos(390^\circ)$

Need Help?

Read It

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4. [-/1 Points]

DETAILS

SPRECALC7 6.3.042.MI.

MY NOTES

ASK YOUR TEACHER

Write the first trigonometric function in terms of the second for θ in the given quadrant. $\cot(\theta)$, $\sin(\theta)$; θ in Quadrant II $\cot(\theta) =$

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5. [-/1 Points]

DETAILS

SPRECALC7 6.3.046.

MY NOTES

ASK YOUR TEACHER

Write the first trigonometric function in terms of the second for θ in the given quadrant. $\csc(\theta)$, $\cot(\theta)$; θ in Quadrant III $\csc(\theta) =$

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2. [-/2 Points] DETAILS SPRECALC7 4.6.022. MY NOTES ASK YOUR TEACHER

This exercise uses the radioactive decay model.

After 3 days a sample of radon-222 has decayed to 58% of its original amount.

(a) What is the half-life of radon-222? (Round your answer to two decimal places.)

days

(b) How long will it take the sample to decay to 30% of its original amount? (Round your answer to two decimal places.)

days

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3. [-/1 Points] DETAILS SPRECALC7 4.6.023. MY NOTES ASK YOUR TEACHER

This exercise uses the radioactive decay model.

A wooden artifact from an ancient tomb contains 70% of the carbon-14 that is present in living trees. How long ago was the artifact made? (The half-life of carbon-14 is 5730 years. Round your decay rate, r , to 6 decimal places. Then round your answer to the nearest whole number.)

yr

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4. [-/1 Points] DETAILS SPRECALC7 4.6.024.MI. MY NOTES ASK YOUR TEACHER

This exercise uses the radioactive decay model.

The burial cloth of an Egyptian mummy is estimated to contain 60% of the carbon-14 it contained originally. How long ago was the mummy buried? (The half-life of carbon-14 is 5730 years. Round your answer to the nearest ten years.)

yr

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5. [-/2 Points] DETAILS SPRECALC7 4.6.026.MI. MY NOTES ASK YOUR TEACHER

This exercise uses Newton's Law of Cooling.

Newton's Law of Cooling is used in homicide investigations to determine the time of death. The normal body temperature is 98.6°F. Immediately following death, the body begins to cool. It has been determined experimentally that the constant in Newton's Law of Cooling is approximately $k = 0.1947$, assuming time is measured in hours. Suppose that the temperature of the surroundings is 70°F.

(a) Find a function $T(t)$ that models the temperature t hours after death.

$T(t) =$

(b) If the temperature of the body is now 75°F, how long ago was the



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is present in living trees. How long ago was the artifact made? (The half-life of carbon-14 is 5730 years. Round your decay rate, r , to 6 decimal places. Then round your answer to the nearest whole number.)

yr

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4. [-/1 Points] DETAILS SPRECALC7 4.6.024.MI. MY NOTES ASK YOUR TEACHER

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yr

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5. [-/2 Points] DETAILS SPRECALC7 4.6.026.MI. MY NOTES ASK YOUR TEACHER

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(a) Find a function $T(t)$ that models the temperature t hours after death.

$T(t) =$

(b) If the temperature of the body is now 75°F, how long ago was the time of death? (Round your answer to the nearest whole number.)

hr

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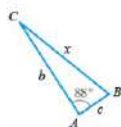
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1. [-/1 Points] DETAILS SPRECALC7 6.6.006. MY NOTES ASK YOUR TEACHER

Use the Law of Cosines to determine the indicated side x . (Assume $b = 12$ and $c = 3$. Round your answer to one decimal place.)

$x =$



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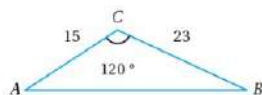
2. [-/3 Points] DETAILS SPRECALC7 6.6.011. MY NOTES ASK YOUR TEACHER

Solve triangle ABC . (Round the length to three decimal places and the angles to one decimal place.)

$c =$

$\angle A =$ $^\circ$

$\angle B =$ $^\circ$



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3. [-/3 Points] DETAILS SPRECALC7 6.6.016. MY NOTES ASK YOUR TEACHER

Solve triangle ABC . (If an answer does not exist, enter DNE. Round your answers to one decimal place.)

$a = 16$, $b = 18$, $c = 24$

$\angle A =$ $^\circ$

$\angle B =$ $^\circ$

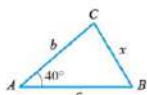
$\angle C =$ $^\circ$

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4. [-/1 Points] DETAILS SPRECALC7 6.6.022.MI. MY NOTES ASK YOUR TEACHER

Find the indicated side x . (Use either the Law of Sines or the Law of Cosines, as appropriate. Assume $b = 10$ and $c = 12$. Round your answer to one decimal place.)

$x =$



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5. [-/1 Points] DETAILS SPRECALC7 6.6.032.MI. MY NOTES ASK YOUR TEACHER

Find the area A of the triangle whose sides have the given lengths. (Round

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5. [-/1 Points] DETAILS SPRECALC7 6.6.032.MI. MY NOTES ASK YOUR TEACHER

Find the area A of the triangle whose sides have the given lengths. (Round your answer to the nearest integer.)

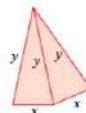
$a = 13$, $b = 103$, $c = 104$

$A =$

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6. [-/1 Points] DETAILS SPRECALC7 6.6.034. MY NOTES ASK YOUR TEACHER

Find the area of the shaded figure, rounded to two decimals. (Assume $x = 1$ and $y = 3$.)



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7. [-/1 Points] DETAILS SPRECALC7 6.6.041. MY NOTES ASK YOUR TEACHER

Two straight roads diverge at an angle of 55° . Two cars leave the intersection at 2:00 P.M., one traveling at 32 mi/h and the other at 44 mi/h. How far apart are the cars at 2:30 P.M.? (Round your answer to two decimal places.)

mi

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8. [-/1 Points] DETAILS SPRECALC7 6.6.043. MY NOTES ASK YOUR TEACHER

A pilot flies in a straight path for 1 h 30 min. She then makes a course correction, heading 13° to the right of her original course, and flies 2 h in the new direction. If she maintains a constant speed of 800 mi/h, how far is she from her starting position? (Round your answer to the nearest mile.)

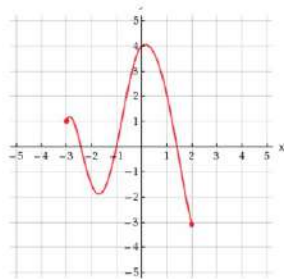
mi

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Use the Vertical Line Test to determine whether the curve is the graph of a function of x .

- ☐ Yes, the curve is a function of x .
☐ No, the curve is not a function of x .

If the curve is a function, state the domain and range. (Enter your answers using interval notation. If the curve is not a function enter NONE.)

domain:

range:

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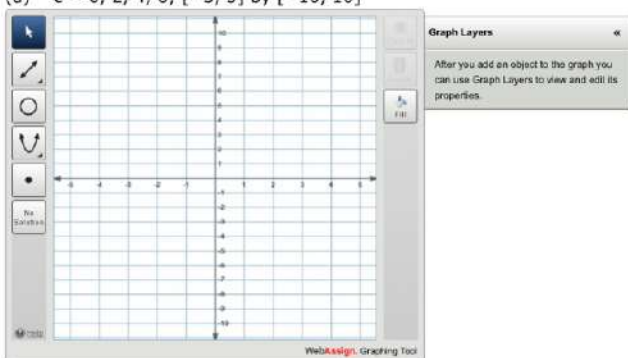
2. [-/2 Points] DETAILS SPRECALC7 2.2.069. MY NOTES ASK YOUR TEACHER

A graphing calculator is recommended.

A family of functions is given. Graph all the given members of the families in the viewing rectangles indicated.

$$f(x) = x^2 + c$$

(a) $c = 0, 2, 4, 6$; $[-5, 5]$ by $[-10, 10]$



(b) $c = 0, -2, -4, -6$; $[-5, 5]$ by $[-10, 10]$



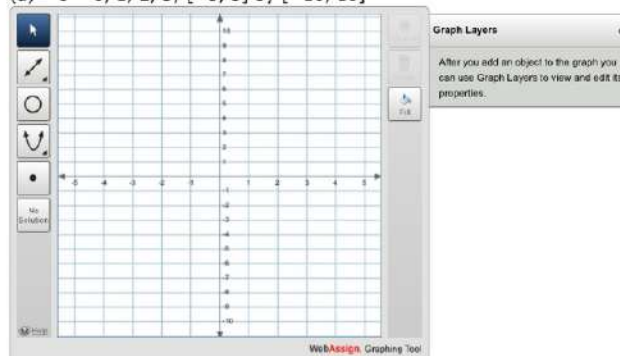
3. [-/2 Points] DETAILS SPRECALC7 2.2.070. MY NOTES ASK YOUR TEACHER

A graphing calculator is recommended.

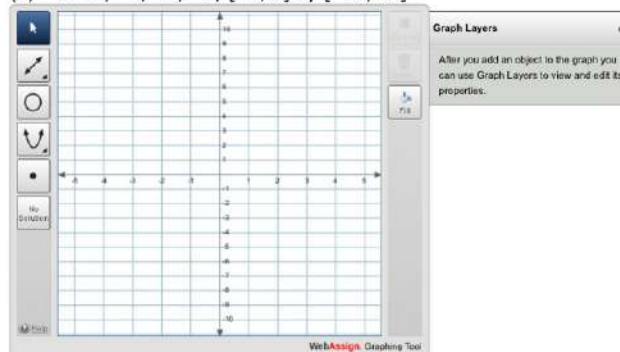
A family of functions is given. Graph all the given members of the families in the viewing rectangles indicated.

$$f(x) = (x - c)^2$$

(a) $c = 0, 1, 2, 3$; $[-5, 5]$ by $[-10, 10]$



(b) $c = 0, -1, -2, -3$; $[-5, 5]$ by $[-10, 10]$



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1. [-/5 Points] DETAILS SPRECALC7 6.3.050. MY NOTES ASK YOUR TEACHER

Find the values of the trigonometric functions of θ from the information given.

$\cot(\theta) = -\frac{5}{9}$, $\cos(\theta) > 0$

$\sin(\theta) =$

$\cos(\theta) =$

$\tan(\theta) =$

$\csc(\theta) =$

$\sec(\theta) =$

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2. [-/5 Points] DETAILS SPRECALC7 6.3.051. MY NOTES ASK YOUR TEACHER

Find the values of the trigonometric functions of θ from the information given.

$\csc(\theta) = 6$, θ in Quadrant I

$\sin(\theta) =$

$\cos(\theta) =$

$\tan(\theta) =$

$\sec(\theta) =$

$\cot(\theta) =$

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3. [-/5 Points] DETAILS SPRECALC7 6.3.053. MY NOTES ASK YOUR TEACHER

Find the values of the trigonometric functions of θ from the information given.

$\cos(\theta) = -\frac{9}{11}$, $\tan(\theta) < 0$

$\sin(\theta) =$

$\tan(\theta) =$

$\csc(\theta) =$

$\sec(\theta) =$

$\cot(\theta) =$

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4. [-/2 Points] DETAILS SPRECALC7 6.3.055. MY NOTES ASK YOUR TEACHER

If $\theta = \pi/3$, find the value of each expression.

$\sin(2\theta) =$

$2 \sin(\theta) =$

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5. [-/9 Points] DETAILS SPRECALC7 6.3.065. MY NOTES ASK YOUR TEACHER

A rocket fired straight up is tracked by an observer on the ground 1 mi away.



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$\sec(\theta) =$

$\cot(\theta) =$

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4. [-/2 Points] DETAILS SPRECALC7 6.3.055. MY NOTES ASK YOUR TEACHER

If $\theta = \pi/3$, find the value of each expression.

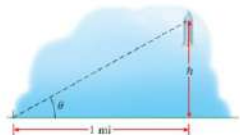
$\sin(2\theta) =$

$2 \sin(\theta) =$

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5. [-/9 Points] DETAILS SPRECALC7 6.3.065. MY NOTES ASK YOUR TEACHER

A rocket fired straight up is tracked by an observer on the ground 1 mi away.



(a) Show that when the angle of elevation is θ , the height of the rocket (in ft) is $h = 5280 \tan(\theta)$.

From the figure, we see that $\tan(\theta) = \frac{h}{1 \text{ mi}}$, so

$h = (\tan(\theta))(\text{ } \text{mi})$

$= (\tan(\theta))(\text{ } \text{mi}) \left(\frac{\text{ft}}{1 \text{ mi}} \right)$

$= \text{ } \text{ft}.$

(b) Complete the table to find the height of the rocket at the given angles of elevation. (Round your answers to the nearest foot.)

θ	20°	50°	70°	85°
h	ft	ft	ft	ft

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1. [-/1 Points] DETAILS SPRECALC7 3.1.051.MI. MY NOTES ASK YOUR TEACHER

If a ball is thrown directly upward with a velocity of 34 ft/s, its height (in feet) after t seconds is given by $y = 34t - 16t^2$. What is the maximum height attained by the ball? (Round your answer to the nearest whole number.)

ft

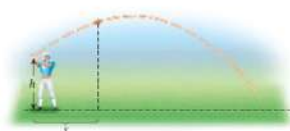
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2. [-/2 Points] DETAILS SPRECALC7 3.1.052. MY NOTES ASK YOUR TEACHER

A ball is thrown across a playing field from a height of $h = 4$ ft above the ground at an angle of 45° to the horizontal at the speed of 20 ft/s. It can be deduced from physical principles that the path of the ball is modeled by the function

$$y = -\frac{32}{(20)^2}x^2 + x + 4$$

where x is the distance in feet that the ball has traveled horizontally.



(a) Find the maximum height attained by the ball. (Round your answer to three decimal places.)

ft

(b) Find the horizontal distance the ball has traveled when it hits the ground. (Round your answer to one decimal place.)

ft

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3. [-/2 Points] DETAILS SPRECALC7 3.1.053.MI. MY NOTES ASK YOUR TEACHER

A manufacturer finds that the revenue generated by selling x units of a certain commodity is given by the function $R(x) = 100x - 0.4x^2$, where the revenue $R(x)$ is measured in dollars. What is the maximum revenue, and how many units should be manufactured to obtain this maximum?

\$, at units

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4. [-/3 Points] DETAILS SPRECALC7 3.1.065. MY NOTES ASK YOUR TEACHER

A baseball team plays in a stadium that holds 51,000 spectators. With the ticket price at \$10, the average attendance at recent games has been 21,000. A market survey indicates that for every dollar the ticket price is lowered, attendance increases by 3000.

(a) Find a function that models the revenue in terms of ticket price. (Let x represent the price of a ticket and R represent the revenue.)

$R(x) =$

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(a) Find the maximum height attained by the ball. (Round your answer to three decimal places.)

ft

(b) Find the horizontal distance the ball has traveled when it hits the ground. (Round your answer to one decimal place.)

ft

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3. [-/2 Points] DETAILS SPRECALC7 3.1.053.MI. MY NOTES ASK YOUR TEACHER

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\$, at units

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4. [-/3 Points] DETAILS SPRECALC7 3.1.065. MY NOTES ASK YOUR TEACHER

A baseball team plays in a stadium that holds 51,000 spectators. With the ticket price at \$10, the average attendance at recent games has been 21,000. A market survey indicates that for every dollar the ticket price is lowered, attendance increases by 3000.

(a) Find a function that models the revenue in terms of ticket price. (Let x represent the price of a ticket and R represent the revenue.)

$R(x) =$

(b) Find the price that maximizes revenue from ticket sales.

\$

(c) What ticket price is so high that no revenue is generated?

\$

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Phyllis invested \$12,500, a portion earning a simple interest rate of $\frac{1}{4}\%$ per year and the rest earning a rate of 4% per year. After one year the total interest earned on these investments was \$518.75. How much money did she invest at each rate?

at $\frac{1}{4}\%$ per year: \$ ✓

at 4% per year: \$ ✓

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2. [1/1 Points] DETAILS PREVIOUS ANSWERS SPRECALC7 1.7.031.MI. MY NOTES ASK YOUR TEACHER

Helen earns \$7.50 an hour at her job, but if she works more than 35 hours in a week, she is paid $1\frac{1}{2}$ times her regular salary for the overtime hours worked. One week her gross pay was \$307.50. How many overtime hours did she work that week?

✓ hr

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3. [0/2 Points] DETAILS PREVIOUS ANSWERS SPRECALC7 1.7.039. MY NOTES ASK YOUR TEACHER

A square plot of land has a building 70 ft long and 20 ft wide at one corner. The rest of the land outside the building forms a parking lot. If the parking lot has area 10,700 ft², what are the dimensions of the entire plot of land?

length: ✗ ft

width: ✗ ft

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4. [-/2 Points] DETAILS SPRECALC7 1.7.043. MY NOTES ASK YOUR TEACHER

A farmer has a rectangular garden plot surrounded by 200 ft of fence. Find the length and width of the garden if its area is 1600 ft².

length (larger dimension): ft

width (smaller dimension): ft



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5. [0/1 Points] DETAILS PREVIOUS ANSWERS SPRECALC7 1.7.053.MI. MY NOTES ASK YOUR TEACHER

A man is walking away from a lamppost with a light source $h = 8$ m above the ground. The man is $m = 2$ m tall. How long is the man's shadow when he is $d = 15$ m from the lamppost? [Hint: Use similar triangles.]

✗ m



6. [-/1 Points] DETAILS SPRECALC7 1.7.055. MY NOTES ASK YOUR TEACHER

What amount of a 70% acid solution must be mixed with a 30% solution to produce 200 mL of a 45% solution?

mL

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7. [-/1 Points] DETAILS SPRECALC7 1.7.064.MI. MY NOTES ASK YOUR TEACHER

Stan and Hilda can mow the lawn in 50 min if they work together. If Hilda works twice as fast as Stan, how long does it take Stan to mow the lawn alone?

min

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8. [-/1 Points] DETAILS SPRECALC7 1.7.071. MY NOTES ASK YOUR TEACHER

A pilot flew a jet from City A to City B, a distance of 2100 mi. On the return trip, the average speed was 20% faster than the outbound speed. The round-trip took 5 h 50 min. What was the speed from City A to City B?

mi/h

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9. [-/1 Points] DETAILS SPRECALC7 1.7.075. MY NOTES ASK YOUR TEACHER

It took a crew 3 h 45 min to row 5 km upstream and back again. If the rate of flow of the stream was 1 km/h, what was the rowing speed of the crew in still water?

km/h

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10. [-/2 Points] DETAILS SPRECALC7 1.7.090.MI. MY NOTES ASK YOUR TEACHER

A wire 390 in. long is cut into two pieces. One piece is formed into a square and the other into a circle. If the two figures have the same area, what are the lengths of the two pieces of wire (to the nearest tenth of an inch)?

circle: in

square: in



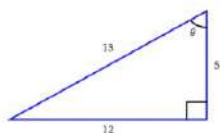
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1. [-/6 Points] DETAILS SPRECALC7 6.2.003. MY NOTES ASK YOUR TEACHER

Find the exact values of the six trigonometric ratios of the angle θ in the triangle.

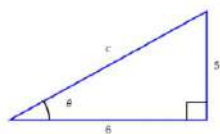


$\sin(\theta) =$
 $\cos(\theta) =$
 $\tan(\theta) =$
 $\csc(\theta) =$
 $\sec(\theta) =$
 $\cot(\theta) =$

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2. [-/6 Points] DETAILS SPRECALC7 6.2.007. MY NOTES ASK YOUR TEACHER

Find the exact values of the six trigonometric ratios of the angle θ in the triangle.

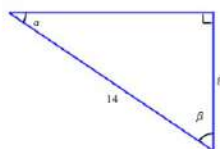


$\sin(\theta) =$
 $\cos(\theta) =$
 $\tan(\theta) =$
 $\csc(\theta) =$
 $\sec(\theta) =$
 $\cot(\theta) =$

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3. [-/3 Points] DETAILS SPRECALC7 6.2.010. MY NOTES ASK YOUR TEACHER

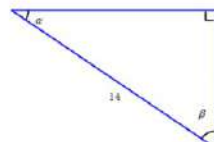
Find $\sin(\alpha)$ and $\cos(\beta)$, $\tan(\alpha)$ and $\cot(\beta)$, and $\sec(\alpha)$ and $\csc(\beta)$.



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3. [-/3 Points] DETAILS SPRECALC7 6.2.010. MY NOTES ASK YOUR TEACHER

Find $\sin(\alpha)$ and $\cos(\beta)$, $\tan(\alpha)$ and $\cot(\beta)$, and $\sec(\alpha)$ and $\csc(\beta)$.



(a) $\sin(\alpha)$ and $\cos(\beta)$

(b) $\tan(\alpha)$ and $\cot(\beta)$

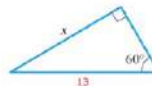
(c) $\sec(\alpha)$ and $\csc(\beta)$

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4. [-/1 Points] DETAILS SPRECALC7 6.2.017. MY NOTES ASK YOUR TEACHER

Find the side labeled x .

$x =$

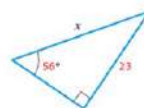


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5. [-/1 Points] DETAILS SPRECALC7 6.2.020. MY NOTES ASK YOUR TEACHER

Find the side labeled x . State your answer rounded to 5 decimal places.

$x =$



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1. [-/1 Points]

DETAILS

SPRECALC7 6.2.053.

MY NOTES

ASK YOUR TEACHER

The angle of elevation to the top of a very tall Building is found to be 7° from the ground at a distance of 1 mi from the base of the building. Using this information, find the height of the building. (Round your answer to the nearest foot.)

 ft

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2. [-/1 Points]

DETAILS

SPRECALC7 6.2.057.

MY NOTES

ASK YOUR TEACHER

A 18-ft ladder leans against a building so that the angle between the ground and the ladder is 68° . How high does the ladder reach on the building? (Round your answer to the nearest foot.)

 ft

Need Help?

Read It

Watch It

Talk to a Tutor

3. [-/1 Points]

DETAILS

SPRECALC7 6.2.059.

MY NOTES

ASK YOUR TEACHER

A man is lying on the beach, flying a kite. He holds the end of the kite string at ground level and estimates the angle of elevation of the kite to be 50° . If the string is 425 ft long, how high is the kite above the ground? (Round your answer to the nearest foot.)

 ft

Need Help?

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4. [-/1 Points]

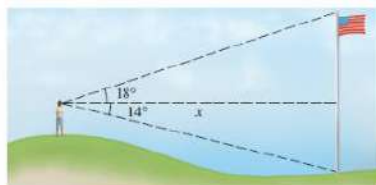
DETAILS

SPRECALC7 6.2.060.

MY NOTES

ASK YOUR TEACHER

A woman standing on a hill sees a flagpole that she knows is 45 ft tall. The angle of depression to the bottom of the pole is 14° , and the angle of elevation to the top of the pole is 18° . Find her distance x from the pole. (Round your answer to one decimal place.)

 $x =$ ft


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2. [-/2 Points] DETAILS SPRECALC7 4.6.022. MY NOTES ASK YOUR TEACHER

This exercise uses the radioactive decay model.

After 3 days a sample of radon-222 has decayed to 58% of its original amount.

(a) What is the half-life of radon-222? (Round your answer to two decimal places.)

days

(b) How long will it take the sample to decay to 30% of its original amount? (Round your answer to two decimal places.)

days

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3. [-/1 Points] DETAILS SPRECALC7 4.6.023. MY NOTES ASK YOUR TEACHER

This exercise uses the radioactive decay model.

A wooden artifact from an ancient tomb contains 70% of the carbon-14 that is present in living trees. How long ago was the artifact made? (The half-life of carbon-14 is 5730 years. Round your decay rate, r , to 6 decimal places. Then round your answer to the nearest whole number.)

yr

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4. [-/1 Points] DETAILS SPRECALC7 4.6.024.MI. MY NOTES ASK YOUR TEACHER

This exercise uses the radioactive decay model.

The burial cloth of an Egyptian mummy is estimated to contain 60% of the carbon-14 it contained originally. How long ago was the mummy buried? (The half-life of carbon-14 is 5730 years. Round your answer to the nearest ten years.)

yr

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5. [-/2 Points] DETAILS SPRECALC7 4.6.026.MI. MY NOTES ASK YOUR TEACHER

This exercise uses Newton's Law of Cooling.

Newton's Law of Cooling is used in homicide investigations to determine the time of death. The normal body temperature is 98.6°F. Immediately following death, the body begins to cool. It has been determined experimentally that the constant in Newton's Law of Cooling is approximately $k = 0.1947$, assuming time is measured in hours. Suppose that the temperature of the surroundings is 70°F.

(a) Find a function $T(t)$ that models the temperature t hours after death.

$T(t) =$

(b) If the temperature of the body is now 75°F, how long ago was the



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hr

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1. [-/3 Points] DETAILS SPRECALC7 6.4.007. MY NOTES ASK YOUR TEACHER

Find the exact value of each expression, if it is defined. Express your answer in radians. (If an answer is undefined, enter UNDEFINED.)

(a) $\sin^{-1}\left(-\frac{\sqrt{2}}{2}\right)$

(b) $\cos^{-1}\left(-\frac{\sqrt{2}}{2}\right)$

(c) $\tan^{-1}(-3)$

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2. [-/3 Points] DETAILS SPRECALC7 6.4.008. MY NOTES ASK YOUR TEACHER

Find the exact value of each expression, if it is defined. Express your answer in radians. (If an answer is undefined, enter UNDEFINED.)

(a) $\sin^{-1}\left(\frac{\sqrt{3}}{2}\right)$

(b) $\cos^{-1}\left(-\frac{1}{2}\right)$

(c) $\tan^{-1}(-\sqrt{5})$

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3. [-/1 Points] DETAILS SPRECALC7 6.4.009. MY NOTES ASK YOUR TEACHER

Use a calculator to find an approximate value (in radians) of the expression rounded to five decimal places, if it is defined. (If an answer is undefined, enter UNDEFINED.)

$\sin^{-1}(0.60)$

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4. [-/1 Points] DETAILS SPRECALC7 6.4.013. MY NOTES ASK YOUR TEACHER

Use a calculator to find an approximate value (in radians) of the expression rounded to five decimal places, if it is defined. (If an answer is undefined, enter UNDEFINED.)

$\tan^{-1}(2)$

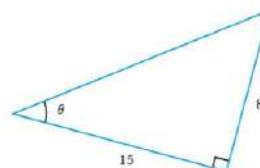
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5. [-/1 Points] DETAILS SPRECALC7 6.4.019. MY NOTES ASK YOUR TEACHER

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5. [-/1 Points] DETAILS SPRECALC7 6.4.019. MY NOTES ASK YOUR TEACHER

Find the angle in degrees, rounded to one decimal.

 °


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6. [-/1 Points] DETAILS SPRECALC7 6.4.503.XP. MY NOTES ASK YOUR TEACHER

Find all angles θ between 0° and 180° satisfying the given equation. (Enter your answers as a comma-separated list.)

$\cos(\theta) = \frac{\sqrt{3}}{2}$

$\theta =$ °

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7. [-/2 Points] DETAILS SPRECALC7 6.4.039. MY NOTES ASK YOUR TEACHER

A 17-ft ladder is leaning against a building. If the base of the ladder is 5 ft from the base of the building, what is the angle of elevation of the ladder? (Round your answer to one decimal place.)

 °

How high does the ladder reach on the building? (Round your answer to the nearest whole number.)

 ft

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8. [-/1 Points] DETAILS SPRECALC7 6.4.040.MI. MY NOTES ASK YOUR TEACHER

A 92-ft tree casts a shadow that is 130 ft long. What is the angle of elevation of the sun? (Round your answer to one decimal place.)

 °

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1. [1/1 Points]

DETAILS

PREVIOUS ANSWERS

SPRECALC7 1.10.043.MI.

MY NOTES

ASK YOUR TEACHER

Find an equation of the line that satisfies the given conditions.

Through $(1, -8)$; parallel to the line $x + 2y = 6$

✓

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2. [0/1 Points]

DETAILS

PREVIOUS ANSWERS

SPRECALC7 1.10.046.

MY NOTES

ASK YOUR TEACHER

Find an equation of the line that satisfies the given conditions.

Through $(7, 6)$; perpendicular to the line $y = 4$

✗

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3. [1/1 Points]

DETAILS

PREVIOUS ANSWERS

SPRECALC7 1.10.047.MI.

MY NOTES

ASK YOUR TEACHER

Find an equation of the line that satisfies the given conditions.

Through $(-1, -2)$; perpendicular to the line $2x + 5y + 5 = 0$

✓

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4. [-1 Points]

DETAILS

SPRECALC7 1.10.050.MI.

MY NOTES

ASK YOUR TEACHER

Find an equation of the line that satisfies the given conditions.

Through $(-3, -7)$; perpendicular to the line passing through $(0, 5)$ and $(4, 3)$

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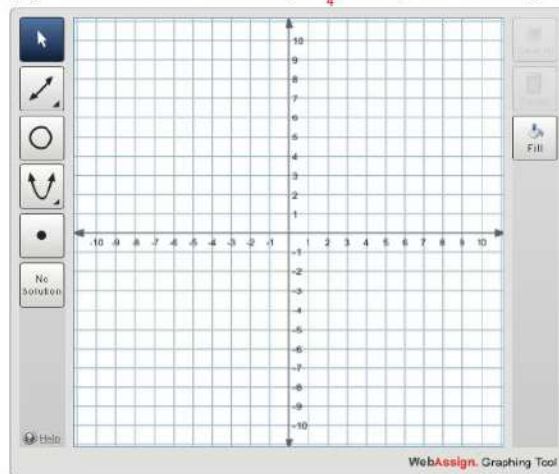
5. [-2 Points]

DETAILS

SPRECALC7 1.10.051.

MY NOTES

ASK YOUR TEACHER

(a) Sketch the line with slope $\frac{5}{4}$ that passes through the point $(-4, 3)$.

Graph Layers

After you add an object to the graph you can use Graph Layers to view and edit its properties.

(b) Find an equation for this line.

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