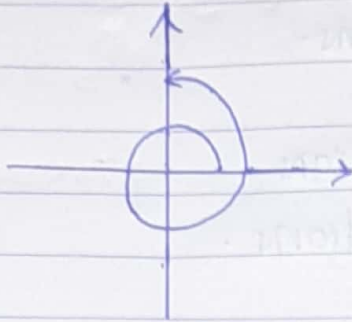


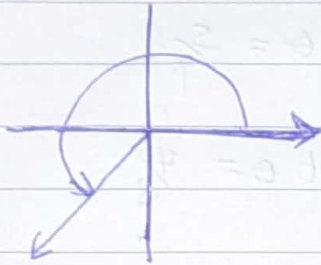
Answers.

Question 1

(a)



(b)



Question 2.

$$(a) \sin \theta = \frac{-\sqrt{7}}{7}$$

$$\csc \theta = \frac{-7}{\sqrt{7}}$$

$$\cos \theta = \frac{-\sqrt{42}}{7}$$

$$\sec \theta = \frac{-7}{\sqrt{42}}$$

$$\tan \theta = \frac{\sqrt{6}}{6}$$

$$\cot \theta = \frac{\sqrt{6}}{1}$$

$$(b) \sin \theta = \frac{-\sqrt{5}}{5}$$

$$\csc \theta = \frac{-5}{\sqrt{5}}$$

$$\cos \theta = \frac{2\sqrt{5}}{5}$$

$$\sec \theta = \frac{5}{2\sqrt{5}}$$

$$\tan \theta = \frac{-1}{2}$$

$$\cot \theta = \frac{-2}{1}$$

Question 6.

(a) complement = -0.45π radians
supplement = 0.05π radians.

(b) complement = 0.34π radians
supplement = 0.84π radians.

Question 7

(a) $\cos \theta = \frac{4}{5}$

$\sec \theta = \frac{5}{4}$

$\tan \theta = \frac{3}{4}$

$\cot \theta = \frac{4}{3}$

$\csc \theta = \frac{5}{3}$

(b) $\sin \theta = \frac{5}{13}$

$\csc \theta = \frac{13}{5}$

$\cos \theta = \frac{12}{13}$

$\sec \theta = \frac{13}{12}$

$\tan \theta = \frac{5}{12}$

$\cot \theta = \frac{12}{5}$