

Class Name : *MT* Math 095 MW Fall 18 - Math 095
MW Fall18 B02

Instructor Name : Bottom

Student Name : _____

Instructor Note : _____

1. Write all the factors of 22.
Use commas to separate them.

2. Find the greatest common factor of these three expressions.

$$15, 45x, \text{ and } 10x^4$$

3. Factor.

$$2w - 4$$

4. Find the greatest common factor of these three expressions.

$$45x^4, 5x^5, \text{ and } 15x$$

5. Factor $16x^3 + 20x^2$.

6. Factor the following expression.

$$30u^2x^7 - 5u^9x^6y^5$$

7. Factor by grouping.

$$xy + 7y - 2x - 14$$

8. Factor.

$$y^2 - 9y + 14$$

9. Factor.

$$y^2 + 11y + 30$$

10. Factor completely.

$$4y^2 - 44y - 48$$

11. Factor completely.

$$5w^2 + 45w + 70$$

12. Factor.

$$3y^2 + 4y - 4$$

17. Factor completely.

$$64w^2 - 4w^4$$

18. Solve.

$$(7 + w)(3w + 2) = 0$$

(If there is more than one solution, separate them with commas.)

19. Solve for y .

$$y^2 - 6y + 9 = 0$$

20. Solve for w .

$$(w - 4)^2 = 2w^2 - 13w + 10$$

If there is more than one solution, separate them with commas.