

Name _____
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Geometry

Factoring Trinomials and Solving Quadratic Equations

Factor the following trinomials

1. $x^2 + 4x - 12$

2. $x^2 + 3x + 2$

3. $x^2 - 8x + 15$

4. $x^2 - 8x - 20$

5. $x^2 + 5x - 14$

6. $x^2 + x - 12$

7. $x^2 - 3x - 10$

8. $x^2 - 7x + 12$

9. $x^2 - 9x + 20$

10. $x^2 - 9x - 36$

Solve the following equations for x:

11. $x^2 - 5x = 6$

12. $x^2 + 4x = 45$

13. $x^2 = 3x + 18$

14. $x^2 = 8x + 33$

15. $x^2 - 7x = 3x - 16$

16. $x^2 + 5x = 8x + 10$

17. $x(x - 2) = 3(x + 8)$

18. $x(x + 7) = 3(x + 7)$

19. $(x - 2)(x + 3) = 3x + 2$

20. $(x + 3)(x + 3) = 36$