Math on the Fly!

NAME: _____ DATE: _____

Solving Quadratic Equations by Factoring

Solve each equation.

1. $x^2 + 2x - 15 = 0$

2. $x^2 - 5x - 36 = 0$

3. $x^2 + 14x + 49 = 0$

4. $x^2 - 16 = 0$

5. $x^2 - 9x = 0$

6. $2x^2 + 3x = 0$

7. $5x^2 - 20x + 20 = 0$

8. $3x^3 + 9x^2 + 6x = 0$

9. $x^2 - 8x = -7$

10. $x^2 = x + 6$

11. $x^2 = 25$

12. $12x^2 - 4x = 0$

13. $2x^2 + 7x + 3 = 0$

14. $3x^2 + 10x - 8 = 0$

15. $2x^2 - 5 = 3x$

16. $1 - 5x + 4x^2 = 0$

SOLUTIONS

1. $x = -5, x = 3$

2. $x = 9, x = -4$

3. $x = -7$

4. $x = -4, x = 4$

5. $x = 0, x = 9$

6. $x = 0, x = \frac{-3}{2}$

7. $x = 2$

8. $x = 0, x = -1, x = -2$

9. $x = 1, x = 7$

10. $x = -2, x = 3$

11. $x = -5, x = 5$

12. $x = 0, x = \frac{1}{3}$

13. $x = -3, x = \frac{-1}{2}$

14. $x = -4, x = \frac{2}{3}$

15. $x = -1, x = \frac{5}{2}$

16. $x = 1, x = \frac{1}{4}$