

SOLVING QUADRATICS (Mixed Methods)

Solve the quadratic equations.

1. $x^2 + 3x - 10 = 0$

6. $3x^2 + 6x - 42 = 0$

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

7. $x^2 + 13x + 22 = 0$

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

8. $2x^2 + 2x - 12 = 0$

4. $x^2 + 6x = 7$

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

5. $x^2 - 64 = 0$

10. $4x^2 - 36 = 0$

Manipulating Equations Worksheet

For problems 1 - 6, manipulate the Linear Equation so that it is in Slope-Intercept Form.

1) $x + y = 5$

2) $2y = 3x + 4$

3) $x + 2y = 7$

4) $3x - 4y = 8$

5) $3(x - 3) = 2(2y + 1)$

6) $3x - 2(y - 3) = 0$

For problems 7 - 12, manipulate the Linear Equation so that it is in Standard Form.

7) $y = -x + 2$

8) $y = 2x + 1$

9) $2y + 1 = 3x - 4$

10) $2(y - 1) = 3(x + 1)$

11) $2y = \frac{1}{3}x - 1$

12) $3y = -\frac{3}{4}x + 5$

For problems 13 - 16, solve the Linear Equation for the indicated variable.

13) $3m - 2n = 4$ solve for n

14) $2(g - h) + 3 = 2h$ solve for h

15) $ab + c = k$ solve for b

16) $3rt - 2mn = 4ab$ solve for r