

Ch. 9 Practice Problems
Math 90

Name _____
Date or Section _____

Solve by any method:

1. $x^2 + 5x + 6 = 0$

2. $x^2 - 12x - 28 = 0$

3. Find the solutions by factoring: $9x^2 = 5x$

4. Solve for y: $(y + 1)(y - 2) = 4$
Hint Foil 1st

5. Solve the quadratic equation $6x^2 = 30$ by Square Root Method.

6. Add a constant to the expression $x^2 - 3x + ?$ to make it a perfect square trinomial.

7. Solve $x^2 - 6x + 4 = 0$ by completing the square.

8. Solve the equation $18x^2 + 12x + 2 = 0$ by the Quadratic Formula.

9. Find two consecutive negative odd integers whose product is 143. Write an equation and use the Quadratic Formula.

Answers

1. $x = -2, -3$

2. $x = -2, 14$

3. $x = 0$ and $x = \frac{5}{9}$

4. $y = -2$ and $y = 3$

5. $x = \pm\sqrt{5}$

6. $\frac{9}{4}$

7. $x = 3 \pm \sqrt{5}$

8. $x = -\frac{1}{3}$

9. $x(x + 2) = 143$; -13 and -11