

11.1 Homework

Date _____ Period _____

Solve each proportion.

1) $\frac{n-3}{8} = \frac{3}{12}$

2) $-\frac{7}{4} = \frac{11}{x+3}$

Solve each equation.

3) $-81 + 72m = 8(-1 + 9m)$

4) $-2(1 - 7p) = -2(1 - 4p) - 10p$

Solve each equation for the indicated variable.

5) $mx = p - n$, for x

6) $u = ka - b$, for a

Solve each system by substitution.

$$\begin{aligned} 7) \quad y &= -4x - 2 \\ y &= -3x - 2 \end{aligned}$$

$$\begin{aligned} 8) \quad -3x - 24y &= -9 \\ x + 8y &= 3 \end{aligned}$$

$$\begin{aligned} 9) \quad 3x + 2y &= -7 \\ x + 3y &= -7 \end{aligned}$$

$$\begin{aligned} 10) \quad -4x - 4y &= 4 \\ 4x + 2y &= 6 \end{aligned}$$

Answers to 11.1 Homework

1) $\{5\}$

2) $\left\{-\frac{65}{7}\right\}$

3) No solution.

4) $\{0\}$

5) $x = \frac{p-n}{m}$

6) $a = \frac{u+b}{k}$

7) $(0, -2)$

8) Infinite number of solutions

9) $(-1, -2)$

10) $(4, -5)$