

## Homework 3.3

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**Solve each proportion.**

1)  $\frac{x}{3} = \frac{x+4}{4}$

2)  $\frac{x+7}{2} = \frac{x}{8}$

3)  $\frac{x}{10} = \frac{x-1}{7}$

4)  $\frac{k-3}{5} = \frac{k+7}{3}$

5)  $\frac{x-3}{3} = \frac{x+1}{6}$

6)  $\frac{p+4}{3} = \frac{p-7}{4}$

**Solve each equation for the indicated variable.**

7)  $-4(3y + 7x) = -124$ , Solve for x

8)  $96 = 6(m + 5n)$ , solve for n

9)  $P = 2w + 2l$ , solve for w

10)  $P = \frac{4}{3}xy^2$ , solve for x

### Answers to Homework 3.3

1)  $\{12\}$

5)  $\{7\}$

9)  $\{w = \frac{P - 2l}{2}\}$

2)  $\{-9.33\}$

6)  $\{-37\}$

10)  $\{x = \frac{3P}{4y^2}\}$

3)  $\{3.33\}$

7)  $\{x = \frac{124 - 12y}{28}\}$

4)  $\{-22\}$

8)  $\{n = \frac{16 - m}{5}\}$