

Chapter 3-1 to 3-4; 3-7 Review

Section 3-1/3-2

$$1) -11 = x - (-15)$$

$$\begin{array}{r} -11 = x + 15 \\ -15 \quad -15 \end{array}$$

$$-26 = x$$

Chapter 3-1 to 3-4; 3-7 Review

Section 3-1/3-2

$$4 \cdot \frac{y}{4} = \frac{15}{6} \cdot 4$$

$$y = \frac{60}{6}$$

$$y = 10$$

$$2) \frac{y}{4} = \frac{15}{6}$$

$$\frac{y}{4} = \frac{15}{6}$$

$$6y = 60$$

$$y = 10$$

Section 3-3

$$3) -2(4 - x) - 7 = 5$$

$$-8 + 2x - 7 = 5$$

$$2x - 15 = 5$$

$$+15 \quad +15$$

$$2x = 20$$

$$x = 10$$

Section 3-3

$$4) -\frac{2}{3}(6 - 2a) = 6$$

$$-\frac{3}{2} \cdot -\frac{2}{3}(6 - 2a) = \frac{6}{1} \cdot -\frac{3}{2}$$

$$6 - 2a = -9$$

$$\frac{-2a}{-2} = \frac{-15}{-2}$$

$$a = \frac{15}{2} \text{ or } 7\frac{1}{2}$$

Section 3-3

$$5) n - 4(1 + 5n) = -2$$

$$\underbrace{n - 4 - 20n}_{-19n - 4} = -2$$

$$-19n - 4 = -2$$

$$\frac{-19n}{-19} = \frac{2}{-19}$$

$$n = -\frac{2}{19}$$

Section 3-4

$$6) 9(-5 - r) = -10 - 2r$$

$$-45 - 9r = -10 - 2r$$

$+9r$ $+9r$

$$-45 = -10 + 7r$$

$+10$ $+10$

$$-35 = 7r$$

$$-5 = r$$

Section 3-4

$$7) \frac{1}{3}(3x - 9) = 4(x + 6)$$

$$x - 3 = 4x + 24$$

$-x$ $-x$

$$-3 = 3x + 24$$

-24 -24

$$\frac{-27}{3} = \frac{3x}{3}$$

$$-9 = x$$

Section 3-4

$$8) (6m - 3) = 10 - 6(2 - m)$$


$$6m - 3 = 10 - 12 + 6m$$

$$6m - 3 = 6m + -2$$

no solution

Section 3-7

Solve for r.

$$9) \frac{S}{\pi s} = \frac{\pi s}{\pi s} (R + r)$$

$$\frac{S}{\pi s} = R + r$$

$-R \quad -R$

$$\frac{S}{\pi s} - R = r$$

Section 3-7

10) Rewrite the equation $3x + 2y - 4 = 2(5 - y)$ so that y is a function of x . Then find y when $x = -2, 0,$ and 1 .

$$3x + 2y - 4 = 10 - 2y$$

$$3x + 4y - 4 = 10$$

$$3x + 4y = 14$$

$$\frac{4y}{4} = \frac{-3x + 14}{4}$$

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

X	Y
-2	5
0	$\frac{7}{2}$