

Pg. 385-386 # 7, 9-11.

7a) $4r - 2 = 14$

$$4r - 2 + 2 = 14 + 2$$

$$\frac{4r}{4} = \frac{16}{4}$$

$$\boxed{r = 4}$$

b) $3 - 3x = -9$

$$3 - 3x - 3 = -9 - 3$$

$$\frac{-3x}{-3} = \frac{-12}{-3}$$

$$\boxed{x = 4}$$

c) $-22 = -10 + 2m$

$$-10 + 2m + 10 = -22 + 10$$

$$\frac{2m}{2} = \frac{-12}{2}$$

$$\boxed{m = -6}$$

d) $53 = -9k - 1$

$$-9k - 1 + 1 = 53 + 1$$

$$\frac{-9k}{-9} = \frac{54}{-9}$$

$$\boxed{k = -6}$$

9 a) $6r + 6 = 18$

$$6r + 6 - 6 = 18 - 6$$

$$\frac{6r}{6} = \frac{12}{6}$$

$$\boxed{r = 2}$$

b) $4m + 8 = 12$

$$4m + 8 - 8 = 12 - 8$$

$$\frac{4m}{4} = \frac{4}{4}$$

$$\boxed{m = 1}$$

P) $3 - 3x = -9$

1) $3 - 3x - 3 = -9 - 3$

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$$c) 39 + 9g = 75$$

$$39 - 39 + 9g = 75 - 39$$

$$\frac{9g}{9} = \frac{36}{9}$$

$$\boxed{g = 4}$$

$$d) -37 = 8f - 139$$

$$8f - 139 = -37$$

$$8f - 139 + 139 = -37 + 139$$

$$\frac{8f}{8} = \frac{102}{8}$$

$$f = 12 \frac{6}{8}$$

or

$$12.75$$

$$10 a) -17 = 3k + 4$$

$$3k + 4 = -17$$

$$3k + 4 - 4 = -17 - 4$$

$$\frac{3k}{3} = \frac{-21}{3}$$

$$k = -7$$

$$b) 29 = -14n + 1$$

$$-14n + 1 = 29$$

$$-14n + 1 - 1 = 29 - 1$$

$$\frac{-14n}{-14} = \frac{28}{-14}$$

$$n = -2$$

$$c) 8x - 7 = -31$$

$$8x - 7 + 7 = -31 + 7$$

$$\frac{8x}{8} = \frac{-24}{8}$$

$$x = -3$$

$$d) -10 = 4n - 12$$

$$4n - 12 = -10$$

$$4n - 12 + 12 = -10 + 12$$

$$\frac{4n}{4} = \frac{2}{4}$$

$$n = 0.5$$

11. Do a check with $x = -3$

a) $-8x - 1 = 25$

$$-8(-3) - 1 = 25$$

$$24 - 1 = 25$$

$$23 \neq 25 \text{ (no)}$$

b) $3 - 7x = -24$

$$3 - 7(-3) = -24$$

$$3 - -21 = -24$$

$$3 + 21 = -24$$

$$24 \neq -24 \text{ (no)}$$

c) $29 = -10(-3) - 1$

$$29 = - -30 - 1$$

$$29 = 30 - 1$$

$$29 = 29 \checkmark$$

d) $30 = 6(-3) + 12$

$$30 = -18 + 12$$

$$30 \neq -6 \text{ (no)}$$