

Solve the following linear equations: **Follow SAMDEB**

$$a) \frac{w}{4} + 31 = 7$$

$$\frac{w}{4} = 7 - 31$$

$$\frac{w}{4} = -24 \times 4$$

$$w = -96$$

$$b) \frac{2x-5}{8} = -7 \times 3$$

$$2x-5 = -21$$

$$2x = -16$$

$$x = -8$$

$$c) 2(4x+13) = 3(4-9x)$$

$$8x+26 = 12-27x$$

$$8x = 12-27x-26$$

$$8x+27x = 12-26$$

$$\frac{35x}{35} = \frac{-14}{35} \div 7$$

$$x = \frac{-2}{5} = -0.4$$

$$d) \frac{a}{4} - \frac{a+3}{5} = 1$$

$$20\left(\frac{a}{4}\right) - 20\left(\frac{a+3}{5}\right) =$$

$$20(1)$$

$$5(a) - 4(a+3) = 20$$

$$5a - 4a - 12 = 20$$

$$1a = 32$$

Solve the following equation for y in terms of x.

$$6x - 5y - 24 = 0$$

$$6x - 5y = 24$$

$$-5y = 24 - 6x$$

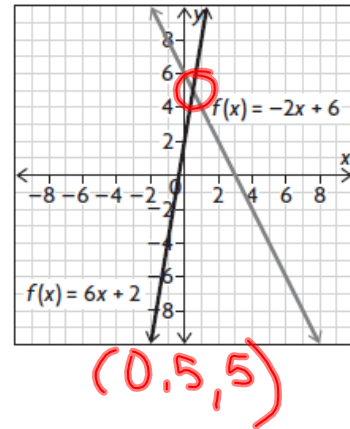
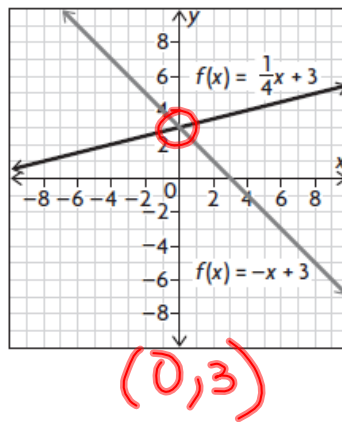
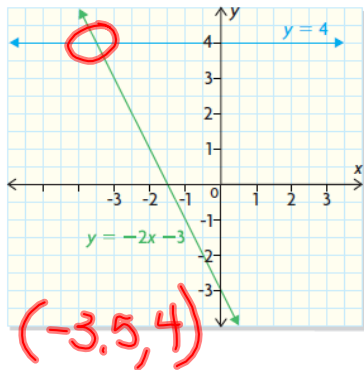
$$y = \frac{24-6x}{-5}$$

$$y = \frac{24}{-5} - \frac{6x}{-5}$$

$$y = \frac{24}{-5} + \frac{6x}{5}$$

**SAMDEB**

State the point of intersection (name the coordinates) for each of the following graphs.



### Chapter 4 Review

Section 4.1 - p. 203 #15

Section 4.2 - p. 211 #12ac

Section 4.3 - p. 221 #5d, 7d, 8, 9, 12def

Section 4.4 - p. 237 #7d, 9

Section 4.5 - p. 251 #15ab

p. 203 #15a)  $V = 100 - 5m$

b)  $V = 100 - 5(13)$   
 $= 100 - 65$   
 $= 35L$

p. 221  
 #8

$$n - 5 = 3n + 1$$

$$n - 3n = 1 + 5$$

$$\frac{-2n}{-2} = \frac{6}{-2}$$

$$n = -3$$

p221  
#9

$$P = 2(l + w)$$

$$36 = 2(l + w), \quad w = l - 5$$

$$36 = 2(l + (l - 5))$$

$$36 = 2(2l - 5)$$

$$36 = 4l - 10$$

$$\frac{46}{4} = \frac{4l}{4}, \quad l = 11.5$$

$$w = 11.5 - 5 = 6.5$$