

Performance Task – Standard Form $Ax + By + C = 0$ Thinking Questions**Solutions****Chapter 6 Section 2****Question 11 Page 314**

a) $y = -2x + 7$
 $y + 2x - 7 = -2x + 7 + 2x - 7$
 $2x + y - 7 = 0$

$$A = 2, B = 1, C = -7$$

b) $y = x - 3$
 $y - x + 3 = x - 3 - x + 3$
 $-x + y + 3 = 0$
 $\frac{-x + y + 3}{-1} = \frac{0}{-1}$
 $\frac{-1x}{-1} + \frac{y}{-1} + \frac{3}{-1} = 0$
 $x - y - 3 = 0$

$$A = 1, B = -1, C = -3$$

c) $y = \frac{3}{4}x - 2$
 $4 \times y = 4 \times \left(\frac{3}{4}x - 2 \right)$
 $4y = 4 \times \frac{3}{4}x - 4 \times 2$
 $4y = 3x - 8$
 $4y - 3x + 8 = 3x - 8 - 3x + 8$
 $-3x + 4y + 8 = 0$
 $\frac{-3x + 4y + 8}{-1} = \frac{0}{-1}$
 $\frac{-3x}{-1} + \frac{4y}{-1} + \frac{8}{-1} = 0$
 $3x - 4y - 8 = 0$

$$A = 3, B = -4, C = -8$$