

## Functions and Graphs Worksheet 2 ANSWERS

1. (a)  $y = 3x - 5$        $3x - y - 5 = 0$   
(b)  $y = -\frac{2}{3}x + 6$        $2x + 3y - 18 = 0$   
(c)  $y = 2x - 6$        $2x - y - 6 = 0$   
(d)  $y = \frac{1}{2}x - 6.5$        $x - 2y - 13 = 0$   
(e)  $y = 7$        $y - 7 = 0$   
(f) No slope-intercept form       $x - 3 = 0$   
(g)  $y = \frac{1}{2}x$        $x - 2y = 0$   
(h)  $y = -\frac{2}{5}x - 7.8$        $2x + 5y + 39 = 0$   
(i) No slope-intercept form       $x + 2 = 0$   
(j)  $y = -13$        $y + 13 = 0$   
(k)  $y = 2x - 1$        $2x - y - 1 = 0$   
(l)  $y = -\frac{3}{2}x - 8$        $3x + 2y + 16 = 0$   
(m)  $y = -2x + 3$        $2x + y - 3 = 0$   
(n)  $y = -\frac{1}{3}x + \frac{16}{3}$        $x + 3y - 16 = 0$
2.  $y = 25x + 150$       2-year total = \$750
3. (a)  $y = 14.75x + 35$   
(b)  $m = 14.75$       Thus, each foot of the hallway takes 14.75 minutes to complete.  
(c)  $y$ -intercept =  $(0, 35)$       Thus, the set up and clean up take 35 minutes total.
4.  
(a)  $m$  is negative       $c$  is positive      (b)  $m$  is positive       $c$  is negative  
(c)  $m$  is zero       $c$  is positive      (d)  $m$  is negative       $c$  is zero