Name:





Find the equation of the line that is parallel to:

a) 
$$y = -\frac{1}{7}x + 5$$
 passing through (0,3)

$$y = -\frac{1}{7}x + 3$$

b) 
$$y = 3x - 6$$
 passing through (0, 2)

$$y = 3x + 2$$

c) 
$$y = -\frac{1}{5}x + 7$$
 passing through (0, -3)

$$y = -\frac{1}{5}x - 3$$

Find the equation of the line that is perpendicular to:

d) 
$$y = -\frac{1}{5}x + 3$$
 passing through (0,4)

$$y = 5x + 4$$

e) 
$$y = \frac{1}{2}x - 3$$
 passing through (0, 7)

$$y = -2x + 7$$

f) 
$$y = 3x + 1$$
 passing through (0, -4)

$$y = -\frac{1}{3}x - 4$$

Find the equation of the line that is parallel to:

g) 
$$y = 3x + 4$$
 passing through (1,6)

$$y = 3x + 3$$

h) 
$$y = 2x + 3$$
 passing through (3,0)

$$y = 2x - 3$$

i) 
$$y = -x + 5$$
 passing through (4, -7)

$$y = -x - 3$$

j) 
$$y = -4x + 3$$
 passing through (-1,9)

$$y = -4x + 5$$

Find the equation of the line that is perpendicular to:

k) 
$$y = -\frac{1}{5}x + 5$$
 passing through (10,22)  $y = 5x - 28$ 

$$v = 5x - 28$$

I) 
$$y = \frac{1}{3}x - 3$$
 passing through (2, -8)

$$y = -3x - 2$$

m) 
$$y = -\frac{1}{4}x + 4$$
 passing through (2, 12)

$$y=4x+4$$

## [를 Exam question:

A straight line, L, passes through the point with coordinates (4, 4) and is perpendicular to the line with equation y = 2x + 3. Find an equation of the straight line L

$$y=-\frac{1}{2}x+6$$

