

Name: _____

- 1.** Complete the following table by stating the gradient and y -intercept of each of the straight lines with the equations shown.

| Equation | Gradient | y -intercept |
|-----------------------------------|----------|----------------|
| $y = 3x + 4$ | | |
| $y = 2x - 1$ | | |
| $y = x + 5$ | | |
| $y = -2x + 1$ | | |
| $y = 4x$ | | |
| $y = 5 - 2x$ | | |
| $y = \frac{2}{3}x + 4$ | | |
| $y = -3 - x$ | | |
| $y = -\frac{3}{4}x - \frac{1}{5}$ | | |

- 2.** Complete the table below by writing the equation of the straight lines with the gradients and y -intercepts shown.

| Gradient | y -intercept | Equation |
|----------------|----------------|----------|
| 4 | 5 | |
| -2 | 3 | |
| 5 | -6 | |
| -3 | -2 | |
| $-\frac{2}{7}$ | 0 | |
| $-\frac{1}{3}$ | $\frac{3}{4}$ | |

- 3.** Circle the equations of the straight lines below that would be parallel to the straight line with equation: $y = 2x - 4$

$y = 3x + 2$ $y = 2 - 4x$ $y = -4x + 4$

$y = 2x$ $y = -4$ $y = 2x + 3$

$y = 5 + 2x$ $y = -2x - 4$ $y = x - 4$

- 4.** Transpose the following equations to make y the subject and hence find the gradient and y -intercept.

(a) $y - 2x + 3 = 0$

Gradient = y -intercept =

(b) $y + 4x - 1 = 0$

Gradient = y -intercept =

(c) $3y - 6x + 8 = 0$

Gradient = y -intercept =

(d) $4y + 3x + 5 = 0$

Gradient = y -intercept =