

For each of the following equations, identify the gradient and  $y$  -intercept.

- 1) For the equation,  $y = 3x + 5$ , identify the gradient and  $y$  -intercept.  
Gradient:  
 $y$  -intercept:
- 2) For the equation,  $y = 2x + 8$ , identify the gradient and  $y$  -intercept.  
Gradient:  
 $y$  -intercept:
- 3) For the equation,  $y = 3x + 4$ , identify the gradient and  $y$  -intercept.  
Gradient:  
 $y$  -intercept:
- 4) For the equation,  $y = \frac{2}{3}x + 5$ , identify the gradient and  $y$  -intercept.  
Gradient:  
 $y$  -intercept:
- 5) For the equation,  $y = -3x + 5$ , identify the gradient and  $y$  -intercept.  
Gradient:  
 $y$  -intercept:
- 6) For the equation,  $y = \frac{1}{2}x - 3$ , identify the gradient and  $y$  -intercept.  
Gradient:  
 $y$  -intercept:
- 7) For the equation,  $y = 3x - 4$ , identify the gradient and  $y$  -intercept.  
Gradient:  
 $y$  -intercept:
- 8) For the equation,  $y = 2x - 3$ , identify the gradient and  $y$  -intercept.  
Gradient:  
 $y$  -intercept:
- 9) For the equation,  $y = 2x + 1$ , identify the gradient and  $y$  -intercept.  
Gradient:  
 $y$  -intercept:
- 10) For the equation,  $y = -3x - 5$ , identify the gradient and  $y$  -intercept.  
Gradient:  
 $y$  -intercept:

### Answer Key:

$$y = mx + c$$

where, m is the gradient or slope  
c is y -intercept

- 1) Gradient: 3  
y -intercept: (0,5)
- 2) Gradient: 2  
y -intercept: (0,8)
- 3) Gradient: 3  
y -intercept: (0,4)
- 4) Gradient:  $\frac{2}{3}$   
y -intercept: (0,5)
- 5) Gradient: -3  
y -intercept: (0,5)
- 6) Gradient:  $\frac{1}{2}$   
y -intercept: (0, -3)
- 7) Gradient: 3  
y -intercept: (0,-4)
- 8) Gradient: 2  
y -intercept: (0,-3)
- 9) Gradient: 2  
y -intercept: (0,1)
- 10) Gradient: -3  
y -intercept: (0,-5)