Gradient Intercept and General Form Conversion

Example Problems		
EXAMPLE 1: SOLUTION:		
EXAMPLE 2: SOLUTION:		
EXAMPLE 3: SOLUTION:		

Question Bank

NOTE: Any questions where you get a decimal or fraction as an answer can be rounded to 2 decimal places or left as an exact value.

1. Equations of the form y = mx + c are in gradient-intercept form. So called, because m (the coefficient of x) tells you the gradient of the line and c tells you the y-intercept of the line. As a warm up, for each of the following equations determine i) their gradient, and ii) their y-intercept.

a)
$$y = 2x + 5$$

b)
$$y = 3x - 2$$

c)
$$y = -x + 3$$

d)
$$y = -3x + 13$$

e)
$$y = 155x + 240$$

f)
$$y = \frac{1}{3}x - 3$$

g)
$$y = \frac{x}{2} + 23$$

h)
$$y = -\frac{3}{7}x - \frac{4}{9}$$

i)
$$y = -\frac{2x}{5} + \frac{6}{5}$$

Answers

- 1. a) i) 2
 - ii) 5
 - b) i) 3
 - ii) -2
 - c) i) -1
 - ii) 3
 - d) i) -3
 - ii) 13
 - e) i) 155
 - ii) 240
 - f) i) $\frac{1}{3}$

- ii) -3
- g) i) $\frac{1}{2}$
- ii) 23
- h) i) $-\frac{3}{7}$
- ii) $-\frac{4}{9}$
- i) i) $-\frac{2}{5}$
 - ii) $\frac{6}{5}$