Outcome 1 - Identifying the gradient and the y-intercept

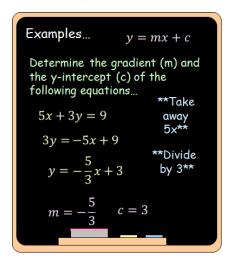
Bronze examples...

Examples... y = mx + cDetermine the gradient (m) and the y-intercept (c) of the following equations... y = 3x - 1m = -4

Silver examples

Examples... y = mx + cDetermine the gradient (m) and the y-intercept (c) of the following equations... m = 42y = 8x + 2c = 1y = 4x + 1**Divide by 2** 11 3y = 9x - 11**Divide by 3** y = 3x -

Gold examples



Bronze Questions

Write down the gradient and the y-intercept of the following equations ...



$$y = 2x + 4$$
 $y = 5x + 8$

$$v = -3x + 1$$

$$y = -3x + 1 \qquad 4 \qquad y = x - 2$$

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

$$5 y = \frac{1}{4}x + 7 5 y = \frac{1}{5}x + 5$$

$$=$$
 $y - 11 \pm 3y$

$$y = 11 + 3x$$
 8 $y = 4 - x$

$$9 \quad v = 6 - 2x$$

$$y = 6 - 2x$$
 10 $y = 12 - \frac{1}{3}x$

Gold Questions

Write down the gradient and the y-intercept of the following equations...

$$2y + 8x = 4$$

$$2 3y - 21x = 3$$

$$3.5x + 5y = 20$$

$$5x + 5y = 20$$
 $\triangle 6y - 4x = 18$

$$4y - 2x = 10$$

$$2y + 3x = 9$$

$$2y + 3x = 9$$
 8 $5x + 4y = 20$

$$9 6y + 8x - 4 = 0$$
 $7x - 5y + 5 = 0$

Silver Questions

Write down the gradient and the y-intercept of the following equations...





$$\frac{3}{2}$$
 $5v = -10r + 5$

$$3 5y = -10x + 5 4 6y = 12x - 18$$

$$4y = 2x + 8$$

$$2y = x + 10$$

$$x = 3v = 15 + 3x$$

$$3y = 15 + 3x$$
 8 $8y = 88 - 24x$

$$9 3y = 9 - 9x$$

$$3y = 9 - 9x$$
 $10 2y = 18 - \frac{1}{4}x$

Bronze Answers

- 1. m = 2, c = 4 2. m = 5, c = 83. m = -3, c = 1 4. m = 1, c = -25. $m = \frac{1}{4}, c = 7$ 6. $m = \frac{1}{5}, c = 5$
- 7. m = 3, c = 11 8. m = -1, c = 4
- 9. m = -2, c = 6 10. $m = -\frac{1}{3}, c = 12$

Silver Answers

- 1. m = 5, c = 2 2. m = 7, c = -1 3. m = -2, c = 1 4. m = 2, c = -3

- 5. $m = \frac{1}{2}, c = 2$ 6. $m = \frac{1}{2}, c = 5$ 7. m = 1, c = 5 8. m = -3, c = 119. m = -3, c = 3 10. $m = -\frac{1}{8}, c = 9$

Gold Answers

- 1. m = -4, c = 2 2. m = 7, c = 1
- 3. m = -1, c = 4 4. m = 2/3, c = 3
- 5. m = 1/2, c = 5/2 6. m = 1, c = 6
- 7. m = -3/2, c = 9/2 8. m = -5/4, c = 5
- 9. m = -4/3, c = 2/3 10. m = 7/5, c = 1