

Find the intercept and gradient from a line given in any form

Maths

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Find the intercept and gradient from a line given in any form

1. Write down the gradient of each of these lines.

a) $y = 3x + 1$ b) $y = x - 2$

c) $y = -4x + 3$ d) $y = 0.5x - 7$

2. Write down the y-intercept

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

c) $y = 2x$ d) $y = -4x + 6$

3. Find the gradient and y-intercept of each line.

a) $y = 3x - 1$ b) $y = -x - 2$

c) $y = 4x$ d) $y = 0.5x - 2.5$

4. Find the gradient and y-intercept of each line.

a) $2y = 3x + 1$ b) $y + x = 2$

c) $y + 2x = -3$ d) $y - 3x = 8$



Answers



Find the intercept and gradient from a line given in any form

1. Write down the gradient of each of these lines.

a) $y = 3x + 1$ b) $y = x - 2$

3 1

c) $y = -4x + 3$ d) $y = 0.5x - 7$

-4 0.5

2. Write down the y-intercept

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

3 -2

c) $y = 2x$ d) $y = -4x + 6$

0 6

3. Find the gradient and y-intercept of each line.

a) $y = 3x - 1$ b) $y = -x - 2$

$m=3$ $c=-1$ $m=-1$ $c=-2$

c) $y = 4x$ d) $y = 0.5x - 2.5$

$m=4$ $c=0$ $m=0.5$ $c=-2.5$

4. Find the gradient and y-intercept of each line.

a) $2y = 3x + 1$ b) $y + x = 2$

$m=1.5$ $c=0.5$ $m=-1$ $c=2$

c) $y + 2x = -3$ d) $y - 3x = 8$

$m=-2$ $c=-3$ $m=3$ $c=8$

