

Name

Date



GRADIENT OF A LINEAR EQUATION SHEET 1

- Find the gradient of each of these equations.

1) $y = 4x - 1$	Gradient:
2) $y = 8x + 5$	Gradient:
3) $y = \frac{1}{2}x - 3$	Gradient:
4) $y = -2x - 1$	Gradient:
5) $y = 5 - 3x$	Gradient:
6) $y = 4 - \frac{1}{4}x$	Gradient:
7) $y = \frac{1}{3}x + 8$	Gradient:
8) $y = \frac{3}{4}x - 7$	Gradient:
9) $y = 12x - 7$	Gradient:
10) $y = \frac{3}{4}x + 5$	Gradient:
11) $3x + y = 10$	Gradient:
12) $y - 5x - 7 = 0$	Gradient:
13) $\frac{1}{2}x + y = 5$	Gradient:
14) $y - 2x + 7 = 0$	Gradient:
15) $4x - y + 2 = 0$	Gradient:
16) $\frac{3}{4}x + y - 1 = 0$	Gradient:
17) $4x + 2y - 6 = 0$	Gradient:
18) $9x + 3y - 12 = 0$	Gradient:
19) $8y - 4x + 16 = 0$	Gradient:
20) $3x + 2y - 7 = 0$	Gradient:

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GRADIENT OF A LINEAR EQUATION SHEET 1 ANSWERS

- Find the gradient or slope of each of these equations.

1) $y = 4x - 1$	Gradient: 4
2) $y = 8x + 5$	Gradient: 8
3) $y = \frac{1}{2}x - 3$	Gradient: $\frac{1}{2}$
4) $y = -2x - 1$	Gradient: -2
5) $y = 5 - 3x$	Gradient: -3
6) $y = 4 - \frac{1}{4}x$	Gradient: $-\frac{1}{4}$
7) $y = \frac{1}{3}x + 8$	Gradient: $\frac{1}{3}$
8) $y = \frac{3}{4}x - 7$	Gradient: $\frac{3}{4}$
9) $y = 12x - 7$	Gradient: 12
10) $y = \frac{3}{4}x + 5$	Gradient: $\frac{3}{4}$
11) $3x + y = 10$ $y = 10 - 3x$	Gradient: -3
12) $y - 5x - 7 = 0$ $y = 5x + 7$	Gradient: 5
13) $\frac{1}{2}x + y = 5$ $y = 5 - \frac{1}{2}x$	Gradient: $-\frac{1}{2}$
14) $y - 2x + 7 = 0$ $y = 2x - 7$	Gradient: 2
15) $4x - y + 2 = 0$ $y = 4x + 2$	Gradient: 4
16) $\frac{3}{4}x + y - 1 = 0$ $y = 1 - \frac{3}{4}x$	Gradient: $-\frac{3}{4}$
17) $4x + 2y - 6 = 0$ $2y = 6 - 4x$ so $y = 3 - 2x$	Gradient: -2
18) $9x + 3y - 12 = 0$ $3y = 12 - 9x$ so $y = 4 - 3x$	Gradient: -3
19) $8y - 4x + 16 = 0$ $8y = 4x - 16$ so $y = \frac{1}{2}x - 2$	Gradient: $\frac{1}{2}$
20) $3x + 2y - 7 = 0$ $2y = 7 - 3x$ so $y = \frac{7}{2} - \frac{3}{2}x$	Gradient: $-\frac{3}{2}$