

Worksheet: What is a Straight Line?

This worksheet has questions about using the general equation of straight line $y = mx + c$. It will help you learn how to use this equation to distinguish between equations which represent straight line and those which do not.

Model answers
to this sheet



What is a Straight Line?
study guide



Which of the following equations describe straight line graphs? Use the pattern $y = mx + c$ to help you. You may have to rearrange some of the formulas before you make a decision. For those that are straight lines, what is the gradient and what is the y -intercept on their corresponding graphs.

(a) $y = 2x + 7$

(b) $y = 7x - 2$

(c) $y = x^2 - 4$

(d) $y = 2 - 7x$

(e) $y = \frac{1}{x} + 2$

(f) $y = 2x$

(g) $x = 0$

(h) $y^3 = 7x - 2$

(i) $\frac{y}{2} = 7$

(j) $2x = 4 - 6y$

(k) $x - 2 = 0$

(l) $y + x = 7$

(m) $y^2 = 7x^2 - 2$

(n) $y - 7 = 2x + 5$

(o) $3y + 4 = \frac{x}{2} - 7$



This worksheet is one of a series on mathematics produced by the Learning Enhancement Team.

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