



STRAIGHT LINE GRAPHS

THE STRAIGHT LINE EQUATION

Ref: G291.3**S1**

A1	State the gradient and the y-axis intercept of $y = 6x - 5$ A2 State the gradient and the y-axis intercept of $y = 7$		A3 Work out the gradient and the y-axis intercept of	A4 Work out the gradient and the y-axis intercept of $5+3x=2y$		
			4y = x - 6			
B1	1 State the gradient and the y-axis intercept of B2 State the gradient and the y-axis intercept of		B3 State the gradient and the <i>y</i> -axis intercept of	B4 State the gradient and the <i>y</i> -axis intercept of		
	y = 4x	y = 4 - 2x	y = x - 3	y = -x		
C1	Work out the gradient and the y-ax intercept of C2 State the gradient and the y-ax intercept of		C3 State the gradient and the <i>y</i> -axis intercept of	C4 Work out the gradient and the y-axis intercept of		
	3y = 2x + 9	y = 5 - x	y = x	3y + 4x = 6		
D1	Work out the gradient and the y-axis intercept of D2 Work out the gradient and the y-axis intercept of		D3 Work out the gradient and the y-axis intercept of	D4 Work out the gradient and the y-axis intercept of		
4y + 8 = 2x		$\frac{1}{2}y = 10 + 4x$	x - y + 7 = 0	9 = 3x + 2y		



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y = mx + c

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A	A1 State the gradient and the <i>y</i> -axis intercept of		A2 State the gradient and the y-axis intercept of		A3 Work out the gradient and the y-axis intercept of			A4 Work out the gradient and the y-axis intercept of		
	y = 6x - 5		y = 7		4y = x	-6		5 + 3x = 2y		
	•	m = 6		m = 0	1	$x - 1.5 \qquad m = c = -1.5$	0.25		m = 1.5	
		<i>c</i> = −5	y = 0x + 7	<i>c</i> = 7	$y = \frac{1}{4}$	C = -	-1.5	y = 1.5x + 2.5	c = 2.5	
B	State the gradient and the y-axis intercept of		B2 State the gradient and the <i>y</i> -axis intercept of		B3 State the gradient and the y-axis intercept of			B4 State the gradient and the y-axis intercept of		
	y = 4x		y = 4 - 2x		y = x -	3		y = -x		
	•	m = 4	y = -2x + 4	m = -2	y = 1x	\overline{z} m	= 1	y = -1x + 0	m = -1	
	y = 4x + 0	c = 0	y = -2x + 4	m = -2 $c = 4$	$y = \pm x$	-5 C:	= -3	y = -1x + 0	c = 0	
C	C1 Work out the gradient and the <i>y</i> -axis intercept of		C2 State the gradient intercept of	and the y-axis	C3 State the gradient and the <i>y</i> -axis intercept of			C4 Work out the gradient and the y-axis intercept of		
	3y = 2x + 9	$m = \frac{2}{1}$	y = 5 - x		y = x			3y + 4x = 6	ц	
	$y = \frac{2}{3}x + 3$	$m=\frac{2}{3}$	y = -1x + 5	m = -1	y = 1x	, , o m	= 1	$y = -\frac{4}{3}x + 2$	$m = -\frac{4}{3}$	
	$y = \frac{1}{3}x + 3$	<i>c</i> = 3	y = -1x + 5	<i>c</i> = 5	$y = \pm x$	C:	= 0	$y = -\frac{1}{3}x + 2$	<i>c</i> = 2	
D	D1 Work out the gradient and the y-axis intercept of		D2 Work out the gradient and the y-axis intercept of		D3 Work out the gradient and the <i>y</i> -axis intercept of		the D4	D4 Work out the gradient and the y-axis intercept of		
	4y + 8 = 2x		1		x-y+	7 = 0		9 = 3x + 2y		
	-	m = 0.5	$\frac{1}{2}y = 10 + 4x$	<i>m</i> = 8	y = 1		= 1	•	m = -1.5	
	$y = \frac{1}{2}x - 2$	m = 0.5 $c = -2$	y = 8x + 20	c = 20	y=1	x + 7	- 7	$y = -\frac{3}{2}x + 4.5$	c = 4.5	