

Y = MX + C (GRADIENT)

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.	$y = 2x + 5$		2	2.	$y = -3x + 7$		-3
3.	$y = x - 4$		1	4.	$y = -x + 9$		-1
5.	$y = 0.5x + 2$		0.5	6.	$y = -2.5x - 1$		-2.5
7.	$y = 4x$		4	8.	$y = -7x$		-7
9.	$y = 3x - 8$		3	10.	$y = -4x + 6$		-4
11.	$y = 1.2x + 3.4$		1.2	12.	$y = -0.8x - 2.1$		-0.8
13.	$y = 9x + 11$		9	14.	$y = -10x - 12$		-10
15.	$y = 6x - 3$		6	16.	$y = -5x + 2$		-5
17.	$y = 0.25x + 7$		0.25	18.	$y = -0.75x - 5$		-0.75
19.	$y = 8x + 13$		8	20.	$y = -9x - 14$		-9
21.	$y = 2.3x + 4.5$		2.3	22.	$y = -3.7x - 6.8$		-3.7
23.	$y = 7x - 9$		7	24.	$y = -8x + 10$		-8
25.	$y = 1.8x + 2.6$		1.8	26.	$y = -2.4x - 3.9$		-2.4
27.	$y = 5x + 15$		5	28.	$y = -6x - 16$		-6

29. $y = 0.3x + 1.7$

| 0.3

30. $y = -0.9x - 2.3$

| -0.9

MASTER QUESTIONS



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|------|---|-------|
| M1. | A straight line passes through points (2, 5) and (4, 9). Find its gradient. | 2 |
| M2. | The cost of a taxi journey is £3 plus £1.50 per mile. Write the equation and find the cost per mile. | 1.5 |
| M3. | A mobile phone plan charges £15 monthly plus £0.10 per minute. What is the cost per minute? | 0.1 |
| M4. | Water is leaking from a tank at 2 litres per hour. If the tank initially had 100 litres, what is the rate of leakage? | -2 |
| M5. | A car's value depreciates by £2000 per year. If it was bought for £18000, what is the annual depreciation rate? | -2000 |
| M6. | A staircase rises 3 metres vertically over a horizontal distance of 4 metres. What is its gradient? | 0.75 |
| M7. | A company's profits increase by £5000 for every 100 units sold. What is the profit per unit? | 50 |
| M8. | The temperature drops by 2°C every hour during the night. What is the rate of temperature change? | -2 |
| M9. | A subscription service charges £8 per month plus £0.25 per download. What is the cost per download? | 0.25 |
| M10. | A hill rises 15 metres over a horizontal distance of 60 metres. What is its gradient? | 0.25 |