Y = MX + C (GRADIENT)

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

MAIN QUESTIONS

1. y = 2x + 5

y = x - 4

5. y = 0.5x + 2

7. y = 4x

9. y = 3x - 8

11. y = 1.2x + 3.4

13. y = 9x + 11

15. y = 6x - 3

17. y = 0.25x + 7

19. y = 8x + 13

21. y = 2.3x + 4.5

23. y = 7x - 9

25. y = 1.8x + 2.6

27. y = 5x + 15

29. y = 0.3x + 1.7

2. y = -3x + 7

4. y = -x + 9

6. y = -2.5x - 1

8. y = -7x

10. y = -4x + 6

12. y = -0.8x - 2.1

14. y = -10x - 12

16. y = -5x + 2

18. y = -0.75x - 5

20. y = -9x - 14

22. y = -3.7x - 6.8

24. y = -8x + 10

26. y = -2.4x - 3.9

28. y = -6x - 16

30. y = -0.9x - 2.3

MASTER QUESTIONS



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