FINDING THE GRADIENT

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

MAIN QUESTIONS

1. Find the gradient of y = 2x + 3
2. Find the gradient of y = -5x + 1
3. Find the gradient of y = 7x - 4
4. Find the gradient of y = -3x + 9
5. Find the gradient of y = 10x - 2
6. Find the gradient of y = -8x + 6
7. Find the gradient of y = 4x + 11
8. Find the gradient of y = -1x + 5
9. Find the gradient of y = 9x - 7
10. Find the gradient of y = -6x + 8
11. Find the gradient between (1, 3) and (3, 7)
12. Find the gradient between (2, 5) and (4, 11)
13. Find the gradient between (0, 4) and (2, 10)
14. Find the gradient between (1, 8) and (3, 2)
15. Find the gradient between (2, 7) and (5, 16)
16. Find the gradient between (3, 12) and (6, 3)
17. Find the gradient between (4, 9) and (7, 18)
18. Find the gradient between (5, 14) and (8, 5)
19. Find the gradient between (6, 11) and (9, 20)
20. Find the gradient between (7, 16) and (10, 7)

21. Find the gradient of the line passing through (1, 2) and (4, 8)

22. Find the gradient of the line passing through (2, 3) and (5, 9)

23. Find the gradient of the line passing through (3, 4) and (6, 10)

24. Find the gradient of the line passing through (4, 5) and (7, 11)

25. Find the gradient of the line passing through (5, 6) and (8, 12)

26. Find the gradient of the line passing through (1, 10) and (3, 4)

27. Find the gradient of the line passing through (2, 12) and (4, 6)

28. Find the gradient of the line passing through (3, 14) and (5, 8)

29. Find the gradient of the line passing through (4, 16) and (6, 10)

30. Find the gradient of the line passing through (5, 18) and (7, 12)

MASTER QUESTIONS

M1. A hill rises 15 metres over a horizontal distance of 30 metres. What is its gradient?

M2. A ramp descends 4 metres over a horizontal distance of 20 metres. What is its gradient?

M3. A road climbs 60 metres over 2 kilometres. What is its gradient?

M4. A staircase rises 3.6 metres over 4.5 metres horizontally. What is its gradient?

M5. A ski slope drops 200 metres over 800 metres horizontally. What is its gradient?

M6. A roof pitches upwards 2.5 metres over 5 metres horizontally. What is its gradient?

M7. A water pipe falls 1 metre over 50 metres length. What is its gradient?

M8. A railway track rises 12 metres over 300 metres. What is its gradient?

M9. A wheelchair ramp rises 0.9 metres over 6 metres. What is its gradient?

M10. A drainage ditch falls 0.5 metres over 10 metres. What is its gradient?