COORDINATES FROM LINEAR EQUATIONS

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

MAIN QUESTIONS

1. y=2x+3, x=4
2. y=5x-1, x=3
3. y=3x+4, x=0
4. y=4x-2, y=10
5. y=6x+1, y=13
6. y=7x-3, y=18
7. (1,3), (2,5)
8. (0,4), (3,10)
9. (2,1), (5,10)
10. (4,5), (6,11)
11. (3,2), (7,14)
12. (1,6), (4,15)
13. y=3x+2, (2,8)
14. y=4x-1, (3,10)
15. y=2x+5, (0,5)
16. y=5x-3, (1,1)
17. m=2, (1,4)
18. m=3, (2,7)
19. m=4, (0,5)
20. m=1, (3,8)
21. (0,2), (1,6)
22. (2,3), (4,7)
23. (1,5), (3,9)
24. (3,1), (5,7)
25. y=3x+1, x=5
26. y=4x-3, x=2
27. y=8x+2, y=18
28. y=5x-4, y=11

29. (5,2), (8,8)

30. (4,7), (6,13)

MASTER QUESTIONS

M1. A plant grows 3cm per week. After 4 weeks it is 15cm tall. Write an equation for height (h) after w weeks.

M2. A taxi charges £3 base plus £2 per mile. Write an equation for cost (C) for m miles.

M3. A line passes through (1,5) with gradient 4. Find its equation.

M4. A tank has 100 litres. Water leaks at 5 litres per hour. Write an equation for volume (V) after t hours.

M5. Find the equation of the line passing through (2,8) and (4,14).

M6. A shop sells books for £5 each plus £2 delivery. Write an equation for total cost (C) for b books.

M7. A line has gradient 3 and crosses the y-axis at 4. Write its equation.

M8. A car drives at 60mph. After 3 hours it has travelled 200 miles. Write an equation for distance (d) after t hours.

M9. Find the equation of the line passing through (0,6) and (3,15).

M10. A phone plan costs £10 monthly plus 50p per minute. Write an equation for cost (C) for m minutes.