## 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 = 3x - 1, x = 5
3.	y = 4x + 2, x = 3	4.	y = 5x - 3, x = 2
5.	y = -x + 7, x = 1	6.	y = 6x + 1, x = 0
7.	y = -2x + 5, x = 3	8.	y = 3x + 4, x = -2
9.	y = -4x - 1, x = -3	10.	y = 2x - 5, x = 6
11.	y = 3x + 2, y = 11	12.	y = 5x - 4, y = 16
13.	y = -x + 8, y = 3	14.	y = 4x - 3, y = 13
15.	y = 2x + 7, y = 15	16.	y = -3x + 4, y = -5
17.	y = 6x - 2, y = -14	18.	y = -2x - 5, y = 7
19.	y = 5x + 1, y = -9	20.	y = 3x - 7, y = 2
21.	y = (1/2)x + 4, x = 6	22.	y = (3/4)x - 2, x = 8
23.	y = 2x + 1/2, x = 1/2	24.	y = -5x + 3, y = 1/2
25.	y = (2/3)x - 4, y = -2	26.	y = 4x - 1/3, x = 1/4
27.	y = -x + 0.5, x = 1.5	28.	y = 3.5x + 2, y = 16

## MASTER QUESTIONS



- M1. A plant grows 3 cm per week. It was 10 cm tall initially. Find the coordinate (weeks, height) after 5 weeks.
- M2. A car travels at 50 km/h. Express the distance after 2.5 hours as a coordinate (hours, distance).
- M3. The temperature drops 2°C per hour from 20°C. Give the coordinate (hours, temperature) after 6 hours.
- M4. A tank drains 30 litres per minute from 1000 litres. State the coordinate (minutes, litres) after 15 minutes.
- M5. Profits are £5 per item sold minus £200 fixed costs. Find the coordinate (items, profit) for 80 items sold.
- M6. A bike hire costs £3 plus £1.50 per hour. What is the coordinate (hours, cost) for 7 hours?
- M7. A taxi charges £2.80 plus £1.20 per mile. Calculate the coordinate (miles, cost) for a 12-mile journey.
- M8. Water fills a pool at 40 litres/minute from empty. When will it have 600 litres? Give the coordinate (minutes, litres).
- M9. A candle shortens 1.8 cm per hour from 24 cm. At what height after 4 hours? State coordinate (hours, height).
- M10. Membership costs £15 monthly plus £10 joining fee. What is the coordinate (months, total cost) after 9 months?