PLOTTING STRAIGHT LINE GRAPHS

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

MAIN QUESTIONS

1.	y = 2x + 5	2.	y = 4x - 3
3.	y = 7x + 1	4.	y = 5x - 2
5.	y = 3x + 0	6.	y = -3x + 4
7.	y = 2x - 6	8.	y = -5x - 1
9.	y = -x + 3	10.	y = -4x - 2
11.	$y = \frac{1}{2}x + 3$	12.	$y = \frac{3}{4}x - 2$
13.	y = 2/5x + 1	14.	$y = -\frac{1}{3}x + 4$
15.	y = -5/2x - 3	16.	2y = 6x + 8
17.	3y = 9x - 6	18.	4y + 8x = 12
19.	5y - 10x = 15	20.	3y - 6x = 0
21.	2x + 3y = 6	22.	5x - 2y = 10
23.	4x + 5y = 20	24.	3x - 4y = 12
25.	6x + 2y = 5	26.	y = 1.5x - 2.5
27.	0.5y = 2x - 1	28.	1.2y + 0.6x = 3.6
29.	y = -0.75x + 1.25	30.	2.5y = 5x + 7.5

- M1. A car hire company charges a fixed fee of £40 plus £0.25 per mile.
 Find the gradient and y-intercept of the cost (y in £) for x miles driven.
- M2. The temperature in a freezer decreases by 4°C per hour. Initially it was -2°C. Find the gradient and y-intercept of the temperature (y in °C) after x hours.
- M3. A line passes through the points (1, 4) and (3, 10). Find its gradient and y-intercept.
- M4. A gym membership has a joining fee of £50 and monthly payments of £30. Find the gradient and y-intercept of the total cost (y in £) after x months.
- M5. A candle burns losing 2 cm in height per hour. Originally 15 cm tall, find the gradient and y-intercept of its height (y in cm) after x hours.