

PLOTTING STRAIGHT GRAPHS

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

MAIN QUESTIONS

1. $y = x + 1$ Gradient: 1, y-intercept:

2. $y = 2x + 1$ Gradient: 2, y-intercept:

3. $y = 3x + 1$ Gradient: 3, y-intercept:

4. $y = x + 2$ Gradient: 1, y-intercept:

5. $y = 2x + 2$ Gradient: 2, y-intercept:

6. $y = 3x + 2$ Gradient: 3, y-intercept:

7. $y = x - 1$ Gradient: 1, y-intercept:

8. $y = 2x - 1$ Gradient: 2, y-intercept:

9. $y = 3x - 1$ Gradient: 3, y-intercept: -1

10. $y = -x + 1$ Gradient: -1, y-intercept: 1

11. $y = -2x + 1$ Gradient: -2, y-intercept: 1

12. $y = -3x + 1$ Gradient: -3, y-intercept: 1

13. $y = -x + 2$ Gradient: -1, y-intercept: 2

14. $y = -2x + 2$ Gradient: -2, y-intercept: 2

15. $y = -3x + 2$ Gradient: -3, y-intercept: 2

16. $y = -x - 1$ Gradient: -1, y-intercept: -1

17. $y = -2x - 1$ Gradient: -2, y-intercept: -1

18. $y = -3x - 1$ Gradient: -3, y-intercept: -1

19. $y = 0x + 3$ Gradient: 0, y-intercept: 3

20. $y = 2x + 0$ Gradient: 2, y-intercept: 0

MASTER QUESTIONS



- M1.** A line has a gradient of 2 and passes through the point (0, 3). Write its equation. | $y = 2x + 3$
- M2.** The cost C in pounds of hiring a bike for d days is £10 plus £5 per day. Write the equation for C in terms of d . | $C = 5d + 10$
- M3.** A car travels at a constant speed of 60 km/h. Write an equation for the distance s in kilometres against time t in hours. | $s = 60t$
- M4.** The temperature decreases by 2 degrees every hour. If at $t=0$ hours it is 20 degrees, write the equation for temperature T against time t . | $T = -2t + 20$
- M5.** A straight line passes through the points (1, 2) and (3, 4). Find its equation. | $y = x + 1$