Equation of a Straight Line



Red (a - d)

- a) Has a gradient of 4 and passes through (0, 3).
- b) Has a gradient of 2 and passes through (0, -4).
- Parallel to y = 2x + 3 and passes through (0, 5).
- Parallel to y = 4x 5 and passes through (0, -2).
- Parallel to y = 2x + 2 and passes through (3, 5).
- Parallel to y = 4x 3 and passes through (1, 7).
- Parallel to y = 5 x and passes through (1, 3).
- h) Parallel to y = 7 2x and passes through (2, 5).

Green (g - j)

- a) Passes through (1, 2) and (4, 11).
- b) Passes through (3, -4) and (5, 6).
- c) Passes through (1, -6) and (-3, 10).
- d) Passes through (2, -5) and (-1, 4).
- e) Passes through (2.5, 4) and (5, 11.5).
- f) Passes through (0.5, 2.5) and (1.25, 5.5).
- Perpendicular to y = 4x + 5 and passes through (0, 5).
- h) Perpendicular to y = 2x 7 and passes through (0, 4).

Amber (d - g)

- Parallel to y = 8 x and passes through (5, 2).
- b) Parallel to y = 3 2x and passes through (2, 5).
- Parallel to y = 5 3x and passes through (4, 1).
- Parallel to y = 7 2x and passes through (-3, 12).
- e) Passes through (0, 3) and (3, 12).
- f) Passes through (0, -2) and (2, 10).
- g) Passes through (1, 5) and (4, 11).
- h) Passes through (2, -3) and (4, 13).

Purple (i - l)

- a) Passes through (4.5, 1.5) and (2.5, 7.5).
- b) Passes through (0.5, 3) and (3, -6).
- Perpendicular to y = 3x + 1 and passes through (0, 3).
- Perpendicular to $y = \frac{1}{2}x 3$ and passes through (0, 8).
- Perpendicular to $y = \frac{1}{4}x + 1$ and passes through (8, 2).
- Perpendicular to $y = \frac{2}{3}x + 3$ and passes through (4, 7).
- Perpendicular to y = 7 3x and passes through (12, 5).
- h) Perpendicular to $y = 4 \frac{1}{2}x$ and passes through (4, 9).