

Straight Lines Homework

1) Draw axes on the squares in your book that run from -10 to $+10$ on both the x and y axes.

Use tables of values to accurately plot the following 3 lines on the same diagram

a) $L_1 \quad y = 2x + 3$

b) $L_2 \quad y = -x + 6$

c) $L_3 \quad y = \frac{1}{2}x - 6$

Write down the coordinates of the points of intersection of

d) L_1 and L_2

e) L_1 and L_3

f) L_2 and L_3

- 2) Find the equation of a line parallel to $y = 3x - 5$ which passes through $(4, 7)$
- 3) Find the equation of a line perpendicular to $y = \frac{1}{2}x + 4$ which passes through $(2, -3)$
- 4) Find the equation of a line which passes through $(2, -3)$ and $(5, 9)$