

Rearranging Equations of Straight Lines

Rearrange these equations into the form $y = mx + c$

- (a) $y = 5 + 3x$
- (b) $3y = 12 - 9x$
- (c) $2y = 6x + 10$
- (d) $2x + y = 15$
- (e) $y - 4x = 9$
- (f) $4x + 2y = 12$
- (g) $x + y - 5 = 0$
- (h) $2x + 3y - 7 = 0$

Rearrange these equations into the form $ax + by + c = 0$

- (a) $y = x - 5$
- (b) $y = 2x + 5$
- (c) $y = -4x + 7$
- (d) $y = -x - 3$
- (e) $y = \frac{1}{2}x + 4$
- (f) $y = \frac{1}{3}x - \frac{5}{3}$

Rearrange these equations into the form $ax + by = c$

- (a) $y = x - 6$
- (b) $y = 3x - 1$
- (c) $y = -5x - 7$
- (d) $y = -x + 8$
- (e) $y = \frac{1}{2}x - 5$
- (f) $y = -\frac{2}{3}x - \frac{1}{3}$

For each of these equations, rearrange into the form $y = mx + c$ and find the gradient and y-intercept.

- (a) $y = 6 + 2x$
- (b) $y = 1 - 3x$
- (c) $2y = 4x + 6$
- (d) $3y = 12 - 6x$
- (e) $x + y = 5$
- (f) $3x + y = 7$
- (g) $2x - y = 3$
- (h) $4x = y - 2$
- (i) $8x + 2y = 20$
- (j) $12x + 4y = 16$
- (k) $2y = 3x + 7$
- (l) $3x + 4y = 9$
- (m) $3x - 6y - 12 = 0$
- (n) $5x - y - 1 = 0$

- (a) $y = 3x + 5$
- (b) $y = -3x + 4$
- (c) $y = 3x + 5$
- (d) $y = -2x + 15$
- (e) $y = 4x + 9$
- (f) $y = -2x + 6$

- (g) $y = -x + 5$
- (h) $y = -\frac{2}{3}x + \frac{7}{3}$

- (a) $x - y - 5 = 0$
- (b) $2x - y + 5 = 0$
- (c) $4x + y - 7 = 0$
- (d) $x + y + 3 = 0$
- (e) $x - 2y + 8 = 0$
- (f) $x - 3y - 5 = 0$

- (a) $x - y = 6$
- (b) $3x - y = 1$
- (c) $5x + y = -7$
- (d) $x + y = 8$

- (e) $x - 2y = 10$
- (f) $2x + 3y = -1$

- (a) $y = 2x + 6$ $m=2$ $(0,6)$
- (b) $y = -3x + 1$ $m=-3$ $(0,1)$
- (c) $y = 2x + 3$ $m=2$ $(0,3)$
- (d) $y = -2x + 4$ $m= -2$ $(0,4)$
- (e) $y = -x + 5$ $m= -1$ $(0,5)$
- (f) $y = -3x + 7$ $m=-3$ $(0,7)$
- (g) $y = 2x - 3$ $m=2$ $(0,-3)$
- (h) $y = 4x + 2$ $m=4$ $(0,2)$
- (i) $y = -4x + 10$ $m=-4$ $(0,10)$
- (j) $y = -3x + 4$ $m= -3$ $(0,4)$
- (k) $y = \frac{3}{2}x + \frac{7}{2}$ $m=\frac{3}{2}$ $(0,\frac{7}{2})$
- (l) $y = -\frac{3}{4}x + \frac{9}{4}$ $m= -\frac{3}{4}$ $(0,\frac{9}{4})$

(m) $y = \frac{1}{2}x - 2$ $m=\frac{1}{2}$ $(0,-2)$

(n) $y = 5x - 1$ $m=5$ $(0,-1)$