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) $5x - y - 1 = 0$

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