Rearranging Equations of Straight Lines

Rearrange these equations into the form y = mx + c

(a)
$$v = 5 + 3x$$

(a)
$$y = 5 + 3x$$
 (b) $3y = 12 - 9x$

(c)
$$2y = 6x + 10$$
 (d) $2x + y = 15$

(d)
$$2x + y = 15$$

(e)
$$y - 4x = 9$$

(e)
$$y - 4x = 9$$
 (f) $4x + 2y = 12$

(a)
$$x + y - 5 = 0$$

(g)
$$x + y - 5 = 0$$
 (h) $2x + 3y - 7 = 0$

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

(a)
$$v = x - 5$$

(a)
$$y = x - 5$$
 (b) $y = 2x + 5$

(c)
$$y = -4x + 7$$
 (d) $y = -x - 3$

(d)
$$y = -x - 3$$

(e)
$$y = \frac{1}{2}x + 4$$

(e)
$$y = \frac{1}{3}x + 4$$
 (f) $y = \frac{1}{3}x - \frac{5}{3}$

Rearrange these equations into the form ax + by = c

(a)
$$y = x - 6$$

(a)
$$y = x - 6$$
 (b) $y = 3x - 1$

(c)
$$y = -5x - 7$$
 (d) $y = -x + 8$

(d)
$$v = -x + 8$$

(e)
$$y = \frac{1}{2}x - 5$$

(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)
$$y = 6 \pm 2r$$

(a)
$$y = 6 + 2x$$
 (b) $y = 1 - 3x$

(c)
$$2y = 4x + 6$$

(d)
$$3y = 12 - 6x$$

(e)
$$x + v = 5$$

(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) $3x + 4y = 9$

(1)
$$3x \perp 4x = 0$$

(m)
$$3x - 6y - 12 = 0$$

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

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