m = gradient
c = y intercept

ANSWERS

a. $y = 2x - 7$

b. $y = -3x + 12$

c. $y = \frac{2}{5}x - 10$

d. $y = -x + 6$

e. $y = -9 + 12x$

f. $y = 5x$

g. $y = -4x$

h. $y = \frac{x}{6} - 1$

i. $y = -\frac{3x}{7} - 8$

j. $y = 30$

(a) $m = 2$, $c = -7$

(b) $m = -3$, $c = 12$

(c) $m = \frac{2}{5}$, $c = -10$

(d) $m = -1$, $c = 6$

(e) $m = 12$, $c = -9$

EXPLANATION:
Rewrite the equation in $y = mx + c$ form:

$y = -9 + 12x$

$y = 12x - 9$

$\therefore m = 12$, $c = -9$

(f) $m = 5$, $c = 0$

EXPLANATION:

$y = 5x$

$y = 5x + 0$

(g) $m = -4$, $c = 0$

(h) $m = \frac{1}{6}$, $c = -1$

EXPLANATION: $y = \frac{x}{6} - 1$

$y = \frac{1}{6}x - 1$

(i) $m = \frac{-3}{7}$, $c = -8$

EXPLANATION:

$y = \frac{-3x}{7} - 8$

$y = \frac{-3}{7}x - 8$

(j) $m = 0$, $c = 30$

EXPLANATION:

$y = 30$

$y = 0x + 30$