

MEMO: EXERCISE 3

a) $y = 4x - 5$
gradient(m) = 4 y-intercept = -5

b) $y = -x + 2$
gradient(m) = -1 y-intercept = 2

c) $y = -2x + 0$
gradient(m) = -2 y-intercept = 0

d) $y = 10$ / $y = 0x + 10$
gradient(m) = 0 y-intercept = 10

2. $m = \frac{-6 - 6}{-1 - 3}$
 $= \frac{-12}{-4}$
 $= \underline{3}$

$y = mx + c$

$y = 3x + c$

Substitute: $T(3; 6)$ to find c

$6 = 3(3) + c$

$6 - 9 = c$

$3 = c$

• $y = 3x - 3$

$T(3; 6)$ and $R(-1; -6)$

or $y = mx + c$

$y = 3x + c$

Substitute: $R(-1; -6)$

$-6 = 3(-1) + c$

$-6 + 3 = c$

$-3 = c$

• $y = 3x - 3$

MEMO : EXERCISE 4

1. $y = mx + c$

Substitute $m = -1$

$$y = -x + c$$

Substitute Point. (^x4; ^y-2) to find c

$$-2 = -1(4) + c$$

$$4 - 2 = c$$

$$\underline{2 = c}$$

\therefore $y = -x + 2$

2. In $y = \boxed{-2}x - 4$ ($m = -2$)

Substitute $m = -2$

$$y = -2x + c$$

Substitute Point (^x5; ^y1) to find c

$$1 = -2(5) + c$$

$$1 + 10 = c$$

$$\underline{11 = c}$$

\therefore $y = -2x + 11$