

(1) Sketch the following linear functions by using any method:

(a) $g(x) = -\frac{1}{2}x - 3$

(b) $h = \{(x; y) : y - 4 = 2x\}$

(2) (a) Sketch the following linear functions on the same Cartesian plane. First write the functions in standard form.

$$2y = 4x - 6 \quad ; \quad x = \frac{1}{2}y \quad \text{and} \quad y - 2x = 1$$

(b) What do you notice from the functions in (a)'s gradients?

(c) What do you notice from the line graphs in (a)?

(d) What deduction can you make from (b) and (c)?

