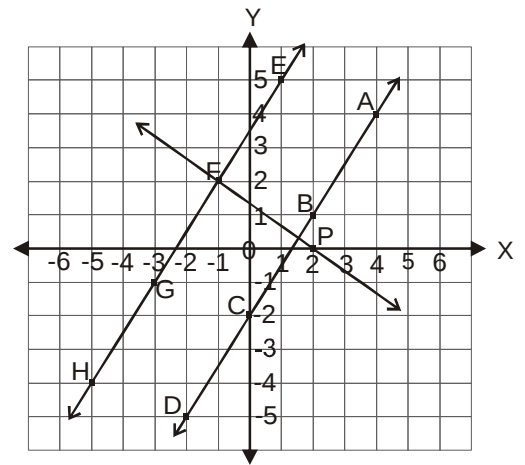


Exercise 2015-10 EL-00002(1)

(1) Calculate the gradient of each of the following straight lines:

- | | |
|--|---------------------------------|
| (a) $(-2 ; 0)$ and $(3 ; 5)$ | (b) $(-1 ; -4)$ and $(-3 ; -5)$ |
| (c) $(2,5 ; 3\frac{1}{2})$ and $(1 ; 8)$ | (d) $(-2 ; 3)$ and $(-2 ; -1)$ |
| (e) $(2 ; 3)$ and $(-2 ; 0)$ | (f) $(5p ; 0)$ and $(0 ; -3p)$ |

(2) (a) Calculate the gradient of each of the following straight lines:
AB ; BC ; CD ; EF ; FG and GH
Also the gradient of FP.



- (b) Consider the gradients as calculated in (a) and answer the following questions:
- (i) Can any two coordinates on a line be used to calculate the gradient?
 - (ii) What is the gradient of lines AD and EF?
 - (iii) What can you derive from lines with the same gradient?
 - (iv) What is the relation between the gradients of FP and EF?

(3) Calculate the gradient of each of the following straight lines:

