Q3. What do you understand by ‘parametric shift of a line’? How does a line shift when its:
(i) slope decreases, and
(ii)its intercept increases?
Ans: Considering the equation of a straight line as

$$b = ma + \varepsilon$$

Where m = slope of straight line, $m > 0$
ε = intercept on vertical axis, $\varepsilon > 0$

Also, when a increases by 1 unit, the value of b increases by m units.
The parameters ε and m are parameters of a graph.

As the value of m increases, the straight line rotates upward around the same vertical intercept. This movement is an example of parametric shift of the graph.
(i) A straight line rotates downward around the same vertical intercept as its slope decreases.
(ii) A straight line shifts parallelly upward when its intercept increases.

********** END **********