

2.)

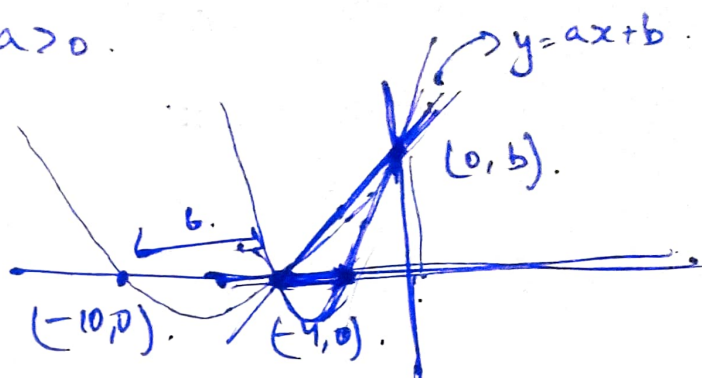
$$y = ax + b, \quad a > 0.$$

$$-4a = -b.$$

$$\boxed{4a = b.}$$

$$\text{as, } a > 0$$

$$b > 0 \rightarrow \text{+ve intercept on y-axis.}$$



~~$$b^2 = 16$$~~

As 6 units apart $\rightarrow (-10, 0)$ is point on curve.

So, curve is $y = (x+10)(x+4)$

$$y = \cancel{x^2 + 40x + 40} x^2 + 14x + 40.$$

$$\text{At } x = 0$$

$$y = 40.$$

$$b = 40.$$

$$a = 10$$

$$\boxed{a + b = 50}$$