

3.

Solution

To find the v -intercept, we set e equal to 0, so :

$$e(v) = v^2 - 3v - 10 = (-5 + v)(2 + v) = 0$$

$$2 + v = 0 \text{ or } -5 + v = 0$$

$$v = -2 \text{ or } v = 5$$

So, the v -intercepts are at the points $(-2, 0)$ and $(5, 0)$