

1.

Solution

To find the z -intercept, we set y equal to 0, so :

$$y(z) = z^2 - 3z - 10 = (-5 + z)(2 + z) = 0$$

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

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

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