

3.

Solution

To find the c-intercept, we set j equal to 0, so :

$$j(c) = c^2 - 3c - 18 = (-6 + c)(3 + c) = 0$$

$$3 + c = 0 \text{ or } -6 + c = 0$$

$$c = -3 \text{ or } c = 6$$

So, the c-intercepts are at the points $(-3, 0)$ and $(6, 0)$