

1.

## Solution

To find the m-intercept, we set d equal to 0, so :

$$d(m) = m^2 - 4m - 12 = (-6 + m)(2 + m) = 0$$

$$2 + m = 0 \text{ or } -6 + m = 0$$

$$m = -2 \text{ or } m = 6$$

So, the m-intercepts are at the points  $(-2, 0)$  and  $(6, 0)$