

4.

## Solution

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

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

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

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

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