

1.

Solution

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

$$v(f) = f^2 - 8f + 15 = (-5 + f)(-3 + f) = 0$$

$$-3 + f = 0 \text{ or } -5 + f = 0$$

$$f = 3 \text{ or } f = 5$$

So, the f -intercepts are at the points $(3, 0)$ and $(5, 0)$