

3.

Solution

To find the u -intercept, we set w equal to 0, so :

$$w(u) = u^2 - 4 = (-2 + u)(2 + u) = 0$$

$$2 + u = 0 \text{ or } -2 + u = 0$$

$$u = -2 \text{ or } u = 2$$

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