6.

Solution

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

$u(f) = f^2 - 2f - 8 = (-4 + f)(2 + f) = 0$

$2 + f = 0$ or $-4 + f = 0$

$f = -2$ or $f = 4$

So, the f-intercepts are at the points $(-2, 0)$ and $(4, 0)$