2.

Solution

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

$t(w) = w^2 - w - 6 = (-3 + w)(2 + w) = 0$

$-3 + w = 0$ or $2 + w = 0$

$w = 3$ or $w = -2$

So, the w-intercepts are at the points $(3,0)$ and $(-2,0)$