2.

Solution

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

$w(k) = k^2 - 7k + 12 = (-4 + k)(-3 + k) = 0$

$-4 + k = 0$ or $-3 + k = 0$

$k = 4$ or $k = 3$

So, the k-intercepts are at the points $(4,0)$ and $(3,0)$