4.

Solution

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

$k(v) = v^2 - 10v + 24 = (-6 + v)(-4 + v) = 0$

$-4 + v = 0$ or $-6 + v = 0$

$v = 4$ or $v = 6$

So, the v-intercepts are at the points $(4,0)$ and $(6,0)$