1.

Solution

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

$u(d) = d^2 - 6d + 8 = (-4 + d)(-2 + d) = 0$

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

$d = 4$ or $d = 2$

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