

1.4 ws2 key

1. $f(2) = -1$, $f(4) = 3$, yes, b/c $-1 < 0 < 3$
 $0 = x^2 - 4x + 3$, $(x-3)(x-1)$, $c = 3$
2. $f(1) = 2$, $f(3) = 34$, no, because 0 is not in between 2 and 34.
3. $f(0) = -1$, $f(5) = 29$, yes, b/c $-1 < 26 < 29$
 $26 = x^2 + x - 1$, $0 = x^2 + x - 27$, $c = 4.720$
4. $f(1) = 3$, $f(6) = 8$, no, because -2 is not in between 3 and 8.
5. $f(0) = -2$, $f(3) = 19$, no, because 22 is not in between -2 and 19.
6. $f(2.5) = 5.833$, $f(4) = 6.667$, yes, b/c $5.833 < 6 < 6.667$
 $6 = \frac{x^2 + x}{x-1}$, cross multiply, $6x - 6 = x^2 + x$, set equal to zero, $0 = x^2 - 5x + 6$
 $(x-3)(x-2)$, $c = 3$
7. $V(0) = 0$, $V(5) = 523.333$, yes, b/c $0 < 275 < 523.333$