

College Algebra Quiz 8

Summer 2010

NAME: _____ Score _____/10

Please **print** your name

No Decimals No mixed numbers No complex fractions No boxed or circled answers

Consider the function whose rule is $f(x) = x^3 + 3x^2 - 13x - 15$.

The zeros of f are -5 , -1 , and 3 .

1. Factor the polynomial $x^3 + 3x^2 - 13x - 15$.
2. What are the x -intercepts of the function f ? **Write your answer as ordered pairs**
3. What are the solutions of the equation $x^3 + 3x^2 - 13x - 15 = 0$?
4. As $x \rightarrow -\infty$, $f(x) \rightarrow$ _____