Math 12002 Analytic Geometry & Calculus I Fall 2016
Quiz 1 Matt Alexander
Name: _____ Quiz Score: _____/10

1. State the definition of $\lim_{x\to a} f(x) = L$ using either complete sentences or the formal ϵ-δ version. (2pts)

Evaluate the following limits if they exist. Choose one to justify each step involved. (8pts)

2. $\lim_{x\to 3} \dfrac{x^2 - 3x}{x^2 + x - 12}$

3. $\lim_{h\to 0} \dfrac{2(4+h)^2 - 32}{h}$

4. $\lim_{t\to 5} \left(\dfrac{t^2 - 5t - 7}{t - 5} + \dfrac{2t - 3}{t - 5} \right)$