MATH 141: QUIZ 1

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Name:			

No phone or calculator. You must show all work to receive full credit. Simplify when applicable.

1. (5 points) Simplify the following expression:

$$\frac{\frac{1}{x^2} - \frac{1}{9}}{x - 3}$$

2. (5 points) Find the zeros of

$$f(x) = 2x^2 - 9x - 5$$

Date: August 30, 2017.

3. (1 point each) Consider the equation below. Answer "True" or "False" for the following statements.

$$y = x^2 + 7$$

- (a) y is a function of x
- (b) y is an odd function.
- (c) The domain of this function is \mathbb{R} .
- (d) f(1) = 2
- (e) y = (x+1)(x-7)