

**Quiz 17 — MA161 — November 2, 2018**

Alden Bradford

1. (6 points) Find the derivative of  $\frac{1 - \cos x}{x^2}$ .

2. (6 points) Evaluate the limit.

$$\lim_{x \rightarrow 0} \frac{e^x}{x^2 - 1}$$

3. (8 points) Evaluate the limit.

$$\lim_{x \rightarrow \infty} \frac{x + 1}{\sqrt{x^2 + 2x}}$$