Quiz 9 Key — MA161 — September 28, 2018
Alden Bradford

Min	Mean	Max
2	15	20

1. (10 points) Evaluate the limit

$$\lim_{x \to 0} \frac{\csc(3x)}{\cot(9x)}$$

> 3
>
> Note: this problem appeared on the second midterm in the fall of 2017.

2. (10 points) If $f(x) = x^2 + 2^{x^2}$, compute $f'(-1)$.

> $-2 - 4\ln(2)$
>
> Note: This problem appeared on the second midterm in the spring of 2015.