

**Quiz 6 — MA161 — September 14, 2018**

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1. (12 points) The limit

$$\lim_{h \rightarrow 0} \frac{\cos(h^2) - 1}{h}$$

represents  $f'(a)$ , the derivative of some function  $f$  at some number  $a$ . Find such an  $f$  and  $a$ .

2. (8 points) The graph of  $f$  is given. State the numbers at which  $f$  is NOT differentiable.

