

**Quiz 10 — MA161 — October 3, 2018**

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1. (12 points) Differentiate both sides of the equation with respect to  $x$ . You do not have to solve for anything. Just differentiate.

$$\sin(x) + 3xy = y^3$$

2. (8 points) Find  $y''$  given that  $y = \tan(x)$ .