

# **Math 233 - Quiz 6**

October 5, 2023

Name \_\_\_\_\_

Score \_\_\_\_\_

Show all work to receive full credit. Supply explanations when necessary.

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1. (10 points) A projectile is fired from ground level at an angle of  $8^\circ$  with the horizontal. The projectile is to have a range of 50 meters. Find the required initial velocity and the maximum height of the projectile. (Use  $g = 9.8 \text{ m/s}^2$ .)