Math 220 (section AD?) **Quiz 1** **Fall 2016**

Name _____

- You have 15 minutes
- No calculators
- Show sufficient work

1. (3 points) Given an acute angle θ for which $\sin(\theta) = \frac{1}{3}$, evaluate the following quantities.

   (a) $\sec(\theta)$

   (b) $\sin(-\theta)$

   (c) $\cos(\pi - \theta)$

2. (4 points) Determine the domain of the given function.

$$f(x) = \frac{\sin\left(x^2 - 4\right)}{\sqrt{102} - \sqrt{200 - 2x^2}}$$

3. (3 points) Determine whether the following function is even, odd or neither. Give a very clear justification for your answer.

$$w(t) = t^5 \sin\left(t^3\right)$$