Name:	
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Quiz 3

Math 112

You have 20 minutes to complete **both sides** of this quiz and upload your work to Canvas. Write your answers on a separate sheet of paper and scan them with a scanning app. When you're finished, first check your work if there is time remaining, then turn it in. You may use a scientific calculator, but not a graphing one — and you may not consult other people or the internet. **Show all your work.**

1. (8 points) Let (x, y) be a point on the unit circle with angle θ counter-clockwise from the positive x-axis. Write x and y as functions of θ .

x =

y =

- **2.** (8 points)
 - a) What do the three angles of any triangle add up to?
 - b) State the Pythagorean theorem. You must define any variables you use and state the circumstances the theorem applies in.

3. (8 points) Find $cos(\theta)$, given the following diagram. Explain your reasoning.

