Calculus and Analytical Geometry I
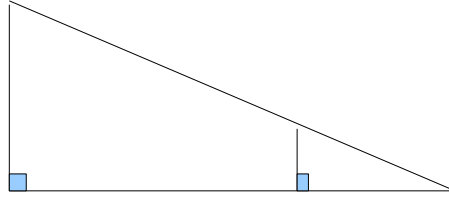Quiz 3.2
Due Monday

Name_____

Show all work necessary for your answers.

1. A child is walking away from a lamp post at 3 feet per second. If the lamp post is 24 feet tall and the child is 4 feet tall, at what rate is the child's shadow lengthening when the child is 16 feet from the lamp post.

2. Use the Linear Approximation for $f(x) = \sqrt[4]{x}$ to approximate $\sqrt[4]{80.8}$.