

Name : \_\_\_\_\_

1. Evaluate  $\int \frac{1}{\sqrt{1+16x^2}} dx$ . First, draw a triangle and choose edge labels without looking at the table of trig substitution.

2. Evaluate  $\int_0^{\sqrt{2}} \frac{x^2}{\sqrt{4-x^2}} dx$ . First, draw a triangle and choose labels without looking at the table of trig substitution.

3. Evaluate  $\int \frac{1}{x^2 \sqrt{9x^2 - 1}} dx$ . First, draw a triangle and choose labels without looking at the table of trig substitution.

4. Evaluate  $\int \sqrt{5+4x-x^2} dx$ . First, draw a triangle and choose labels without looking at the table of trig substitution.