**Honors Algebra 2 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hr\_\_**

**Pythagorean Identity Practice**

Given one trig ratio, find the other **2** ratios. Then verify the identity. Show the triangle for each example.

1. Given sin $θ$ = $\frac{3}{5}$ and cos$ θ$ is negative. 2. Given tan $θ$ = $\sqrt{3}$ and sin $θ$ is negative.

3. Given cos $θ$ = $-\frac{2}{3}$ and tan $θ$ is positive. 4. Given tan $θ$ = -1 and sin$ θ$ is positive.

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5. Given cos $θ$ = $\frac{3}{5}$ and sin $θ$ is positive. 6. Given sin $θ$ = $-\frac{1}{10}$ and cos $θ$ is positive.

7. Given sin $θ$ = $-\frac{6}{7}$ and tan $θ$ is negative. 8. Given cos $θ$ = $\frac{1}{2}$ and tan $θ$ is positive.