Additional Problems: Trigonometry

**A Pythagorean Identity**

**Some problems include the solution. Please remove before sharing with students.**

1. Carlos was asked to use triangles formed by angles on the unit circle to prove the Pythagorean Identity where and What value should he use for ?

\*\*Solution:

1. Emily was asked to use triangles formed by angles on the unit circle to prove the Pythagorean Identity where and What value should she use for ?

\*\* Solution:

1. David was asked to use triangles formed by angles on the unit circle to prove the Pythagorean Identity where and What value should he use for ?

\*\*Solution:

1. Using the Pythagorean Identity, determine if and

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\*\* Solution:

1. Find the cosine for an angle that has a sine of  and is in Quadrant II. Use the Pythagorean identity  and the quadrant to solve.

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1. Find the cosine for an angle that has a sine of  and is in Quadrant II. Use the Pythagorean identity  and the quadrant to solve.

\*\* Solution:

1. What is the tangent for an angle that has a cosine of and is in Quadrant III? Use the Pythagorean identity , the trigonometric identity , and the quadrant to solve.

\*\* Solution:

1. What is the tangent for an angle that has a cosine of and is in Quadrant III? Use the Pythagorean identity , the trigonometric identity , and the quadrant to solve.

\*\* Solution:

1. What is the sine for an angle that has a cosine of  and is in Quadrant IV? Use the Pythagorean identity and the quadrant to solve.

\*\*Solution:

1. What is the sine for an angle that has a cosine of  and is in Quadrant IV? Use the Pythagorean identity and the quadrant to solve.

\*\*Solution:

1. What is the sine for an angle that has a cosine of  and is in Quadrant IV? Use the Pythagorean identity and the quadrant to solve.

\*\*Solution: