Trigonometry Test Exam Key

\*Teacher Name\*

Problem 1) A 20 ft. beam leans against a wall. The beam reaches the wall 13.9 ft. above the ground. What is the measure of the angle formed by the beam and the ground?

Answer: 44 degrees

Problem 2) What is the sum of trigonometric ratios Sin 54 and Cos 36?

Answer: 1.618

Problem 3) What is the sum of trigonometric ratios Sin 33 and Sin 57?

Answer: 1.383

Problem 4) What is the sum of trigonometric ratios Cos 16 and Cos 74?

Answer: 1.237

Problem 5) Which trigonometric function can equal or be greater than 1.000?

Answer: Tangent

Problem 7) A plane ascends at a 40 degree angle. When it reaches an altitude of one hundred feet, how much ground distance has it covered? To solve, use the trigonometric chart. Round the answer to the nearest tenth.

Answer: 119.2 feet

Problem 8) In the triangle ABC, vertex C is a right angle. Which trigonometric ratio has the same trigonometric value as Sin A?

Answer: Cos B