Basic trig functions - practice problems

These problems are designed to help you learn basic trigonometry ("trig") functions and how to use your calculator correctly.

Calculating sine, cosine, and tangent

Problem 1. The angle of repose for sand is typically about 35°. What is the sine of this angle?

Problem 2. When driving, a steep hill is typically only 12°. What is the cosine of this angle?

Problem 3. The angle that waves hit a shoreline is 75°. What is the tangent of this angle?

For the next three problems, use the photo of Mount Rainier below.

Problem 4.What is the sine of angle A?

Problem 5. Determine angle A in degrees.

Problem 6. What is the cosine of angle B?