Name:
Trigonometry Reteach

1. A train slowly climbs a 500-m mountain track which is at an angle of 10.0° with respect to the horizontal. How much altitude does it gain?

2. A right triangle has a hypotenuse of 30 m. The base of the triangle lies horizontal and the height of the triangle is vertical and opposite from a 25^{o} angle. Find two things, the height of the triangle and the base of the triangle.

3. A right triangle has a base of 40 mm and a hypotenuse of 50 mm. Find the angle adjacent to the 40mm base and the length of the opposite side from the angle.

4. A right triangle has sides 5.0 m, 12 m, and 13 m. The smallest angle of this triangle is what value?