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Sohcahtoa Word Problems HW

1) A window beam 24 feet long leans against a wall and makes an angle of 71° with the ground. How high up the wall does the beam reach to the nearest foot?

A) 8 feet C) 70 feet
B) 23 feet D) 29 feet

2) A ladder leaning against a building makes an angle of 65° with the ground and reaches a point on the building 20 feet above the ground. What is the length of the ladder to the nearest foot?

A) 9 feet C) 47 feet
B) 41 feet D) 23 feet

3) An airplane climbs at an angle of 13° with the ground. What is the distance it has traveled (to the nearest hundred feet) when it has climbed an altitude of 400 feet?

A) 400 feet C) 51 feet
B) 2,000 feet D) 33 feet
C) 3,000 feet
D) 1,700 feet

4) A 20-foot pole leaning against a wall reaches a point 18 feet above the ground. What is the angle which the pole makes with the ground to the nearest degree?

A) 64° C) 48°
B) 36° D) 42°

5) When the plane had flown 4,150 feet from the airport where it had taken off, it had covered a horizontal distance of 3,000 feet. What is the angle at which the plane rose from the ground to the nearest degree?

A) 28° C) 49°
B) 62° D) 41°

6) As a plane on the ground 40 feet from the base of a tree, the angle of elevation of the top of the tree is 4° . What is the height of the tree to the nearest foot?

A) 30 feet C) 51 feet
B) 38 feet D) 33 feet

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