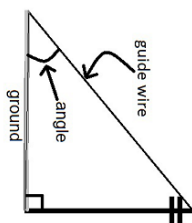


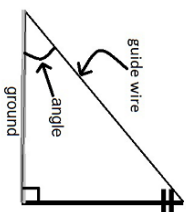
The picture below shows a pole that is perpendicular to the ground, and it may not be drawn to scale.



The angle of the guide wire to the ground is 44 degrees. If the guide wire is 329 inches long, how tall is the pole to the nearest inch?

- a. 229 inches
- b. 227 inches
- c. 223 inches
- d. 225 inches

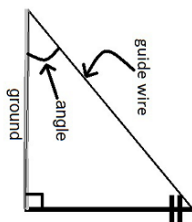
The picture below shows a pole that is perpendicular to the ground, and it may not be drawn to scale.



The angle of the guide wire to the ground is 50 degrees. If the guide wire is in the ground 271 inches away from the base of the pole, how tall is the pole to the nearest inch?

- a. 320 inches
- b. 318 inches
- c. 324 inches
- d. 323 inches

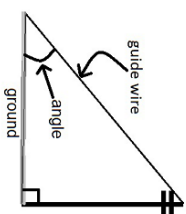
The picture below shows a pole that is perpendicular to the ground, and it may not be drawn to scale.



The angle of the guide wire to the ground is 49 degrees. If the guide wire is 303 inches long, how tall is the pole to the nearest inch?

- a. 225 inches
- b. 224 inches
- c. 228 inches
- d. 229 inches

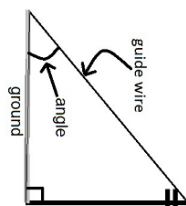
The picture below shows a pole that is perpendicular to the ground, and it may not be drawn to scale.



The angle of the guide wire to the ground is 45 degrees. If the guide wire is in the ground 189 inches away from the base of the pole, how tall is the pole to the nearest inch?

- a. 195 inches
- b. 189 inches
- c. 191 inches
- d. 192 inches

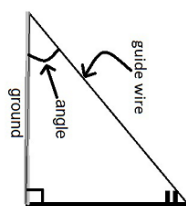
The picture below shows a pole that is perpendicular to the ground, and it may not be drawn to scale.



The guide wire is 323 inches long. If the angle of the guide wire to the ground is 48 degrees, how far from the base of the pole is the guide wire anchored to the nearest inch?

- a. 216 inches
- b. 210 inches
- c. 212 inches
- d. 217 inches

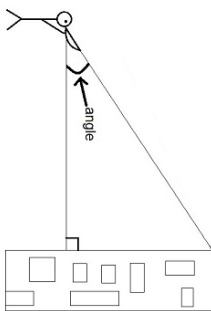
The picture below shows a pole that is perpendicular to the ground, and it may not be drawn to scale.



The guide wire is 293 inches long. If the angle of the guide wire to the ground is 35 degrees, how far from the base of the pole is the guide wire anchored to the nearest inch?

- a. 239 inches
- b. 240 inches
- c. 243 inches
- d. 235 inches

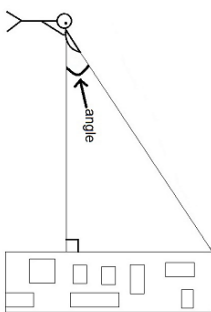
The picture below may not be drawn to scale.



You are standing 49 feet away from the base of the building on level ground. As you look through an inclinometer to line up your sight to the top of the building, the angle on your tool reads 41 degrees. If your eye level is exactly 5 feet, how tall is the building to the nearest foot?

- a. 46 feet
- b. 43 feet
- c. 44 feet
- d. 48 feet

The picture below may not be drawn to scale.



You are standing 57 feet away from the base of the building on level ground. As you look through an inclinometer to line up your sight to the top of the building, the angle on your tool reads 49 degrees. If your eye level is exactly 5 feet, how tall is the building to the nearest foot?

- a. 69 feet
- b. 71 feet
- c. 66 feet
- d. 74 feet

The picture below may not be drawn to scale.



Your buddy, Steve, made a ramp for his bike. The height of the blocks is 19 inches, and the ramp is made of a 37-inch board. What is the measure on the incline angle to the nearest degree?

- a. 25 degrees
- b. 35 degrees
- c. 30 degrees
- d. 31 degrees

The picture below may not be drawn to scale.



Your buddy, Steve, made a ramp for his bike. The height of the blocks is 12 inches, and the ramp is made of a 24-inch board. What is the measure on the incline angle to the nearest degree?

- a. 35 degrees
- b. 29 degrees
- c. 27 degrees
- d. 30 degrees

The picture below may not be drawn to scale.



Your buddy, Steve, wants to make a ramp for his bike. The height of the blocks is 15 inches, and he wants the incline angle to be 18 degrees. How long of a board will he need to the nearest inch?

- a. 55 inches
- b. 49 inches
- c. 47 inches
- d. 46 inches

The picture below may not be drawn to scale.



Your buddy, Steve, wants to make a ramp for his bike. The height of the blocks is 13 inches, and he wants the incline angle to be 17 degrees. How long of a board will he need to the nearest inch?

- a. 43 inches
- b. 49 inches
- c. 44 inches
- d. 40 inches