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| Emily is throwing snowballs off of the top of a 100 foot tall building.  Her throw went at 33 degree angle with the building but Ava Harry is aproximately 150 feet away from the building and Ava Lassiter is approximately 178 feet away from the building. Which Ava did Emily hit?  |
| Tyler is 2 feet away from a penny on the sidewalk. From his eyes the angle to the penny is 45 degrees. What is the distance from Tyler's head to the penny? |
| Snow is falling at an angle of depression of 62 degrees. The snow is falling 574 feet from the cloud to the ground. How far above the ground is the cloud? |
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| A restaurant is on the top floor of a 10 story building. Each story is 10 feet tall. If a piece of meat is thrown at an angle of depression of 72°. How far will the meat land from the building? Will it hit a man standing 100 feet away from the building?  |
| A volleyball is served over a volleyball net. While the ball is directly over the net at eight feet in height, it is directed at the floor. That ball lands twelve feet away from the net. At what angle is the top of the net from the ball? |
| The Super Pig is looking down at the citizens and he is 50 ft off the ground with a 35 degree angle of depression. How far away is the pig from the citizens? |
| From the top of a milk carton 14 inches tall, the angle of depression of a glass across the counter is 42•. Find, to the nearest inch, the distance from the glass to the foot of the milk carton. |
| Billy, who is 3 feet tall, spots a marble on a tall 10 feet away. The marble is has a 40 degree elevation from Billy’s line of sight. What is the full vertical measurement of the counter in inches?  |
| A duck leaves its nest located 206 feet in the air. It flies 300 feet away, to a point 400 feet above the center of a lake. Then it dives straight down into the lake. What is the angle of elevation at which the duck departs from its nest? At what angle will the duck dive towards the lake? |
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