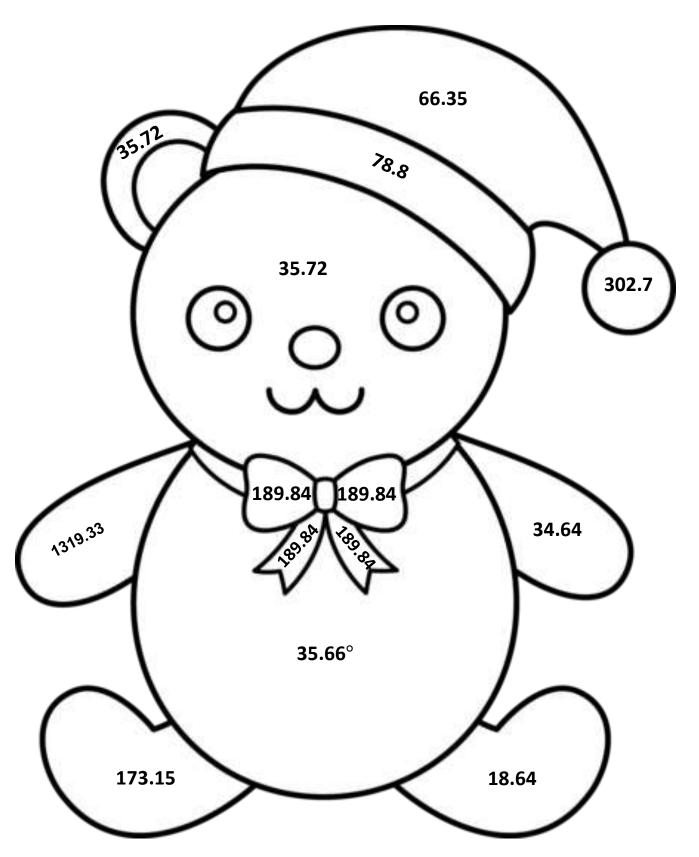
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COLOR BY CODES ANGLES OF ELEVATION AND DEPRESSION



Answer the questions. Color the "Teddy Bear" according to your answers.

1.	A man flies a kite with a 100 feet string. The angle of elevation of the string is 52°. How high off the ground is the kite? Round your answer to the nearest hundredth. (GREEN)
	height = feet
2.	At a point on the ground 50 feet from the foot of a tree, the angle of elevation to the top of the tree is 53°. Find the height of the tree rounded up to the nearest hundredth. (RED)
	height = feet
3.	Tom and Sam are on the opposite sides of a tower of 160 meters height. They measure the angle of elevation of the top of the tower as 40° and 55° respectively. Find the distance between Tom and Sam. Round your answer to the nearest hundredth. (PINK)
	distance = meters
4.	A man on the deck of a ship is 13 feet above water level. He observes that the angle of depression of the base of a cliff is 20°. Find the distance of the cliff from the ship. Round your answer to the nearest hundredth. (LIGHT BROWN)
	distance = feet
5.	A kite in the air has its string tied to the ground. If the length of the string is 40 meters and its inclination to the horizontal is 60°, find the height of the kite above the ground when the string is taut. (ORANGE)
	Maximum Height = feet
6.	From the top of a spire of height 50 feet, the angles of depression of two cars on a straight road at the same level as that of the base of the spire and on the same side of it are 25° and 40°. Calculate the distance between the two cars. Round your answer to the nearest hundredth. (RED)
	distance = feet

7.	A rescue team 1000 feet away from the base of a vertical cliff measures the angle of elevation to the top of the cliff to be 70°. A climber is stranded on a ledge. The angle of elevation from the rescue team to the ledge is 55°. How far is the stranded climber from the top of the cliff? Round your answe to the nearest hundredth. (ORANGE)
	distance = feet
8.	A golfer is standing at the tee, looking up to the green on a hill. If the tee is 36 yards lower than the green and the angle of elevation from the tee to the hole is 12°, find the distance from the tee to the hole. Round your answer to the nearest hundredth. (RED)
	distance = yards
9.	A ladder 8 meters long rests against a vertical wall so that the distance between the bottom of the ladder and the wall is 6.5 meters. Find the angle that the ladder makes with the ground. (LIGHT BROWN)
	Angle =
10	From a plane flying due east at 265 m above sea level, the angles of depression of two ships sailing due east measure 35° and 25°. How far apart are the ships? Round your answer to the nearest hundredth. (YELLOW)
	distance =