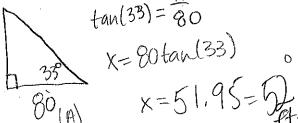
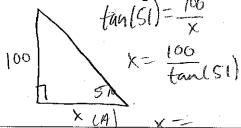
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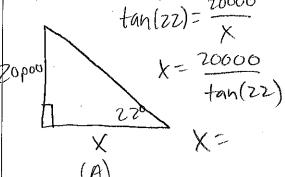
1. Lil' Wayne wants to measure the height of a tree. He walks exactly 80 feet from the base of the tree and looks up. The angle of elevation from the ground to the top of the tree is 33°. How tall is the tree?



3.A building is 100 feet high. At some unknown distance away from the building, Gucci Mane notices that the angle of elevation to the top of the building is 51°. How far is Gucci Mane from the base of the building?

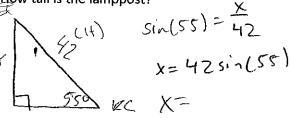


5.A jet is flying at an altitude of 20,000 feet. 2 Chainz measures the angle of elevation to the plane to be 22°. Find the horizontal distance of the plane from the airport.

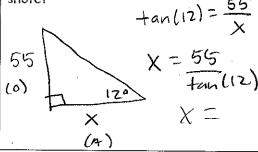


7. Nicki Minaj driving along a flat road approaching some mountains. As you pass a sign that informs you that the mountain is 4 miles away, the angle of elevation to the highest peak

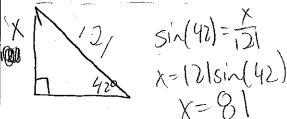
2. T.l. is sitting on top of a lamppost. The angle of depression from the T.l. to the feet of Kid Cudi standing away from the lamppost is 55°. The distance from the T.l to Kid Cudi is 42 meters. How tall is the lamppost?



4.Snoop Dogg is in a 55-foot tall lighthouse and spots a ship in distress at an angle of depression of 12°. How far is the ship from shore?

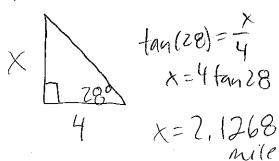


6.Wiz Khalifa is in a hot air balloon is tethered to the ground by a 121-foot cable. As the balloon is inflated, it begins to rise. Due to the wind, the angle of depression from the balloon to the ground is 42° when the cable is pulled tight. How high above the ground is the balloon at this instant before the cable is released?

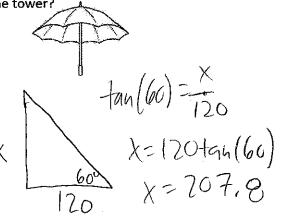


8. Jay Z is contemplating his rap career at the top of a vertical cliff 60 m high, the angle of depression of an object that is level with the

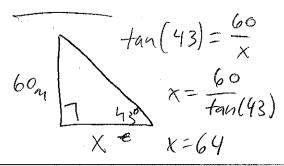
you can see is 28°. Approximately how high is that peak?



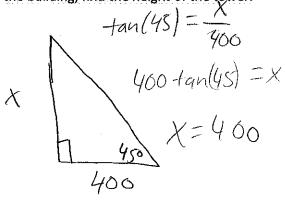
9. Kanye West is standing at a point 120 ft away from the foot of a tower, the angle of elevation of the top of the tower is 60°. What is the height of the tower?



base of the cliff is 43°. How far is the object from the base of the cliff?



10. The angle of depression of a stone on the ground from the top of a tower is 45°. If the stone is at a distance of 400 meters away from the building, find the height of the tower.



To receive credit you <u>MUST</u> draw the diagram, <u>label</u> the given sides, angles, and <u>label</u> the missing side length x. Then <u>solve</u> and use the calculator to approximate the distance.

Why did the rapper carry an umbrella?

		F 14	•	
A. 8081	E. 64	1.52	O. 49501	U.56
B. 1.88	C. 29	D. 208	F. 259	Н. 60
L.34	P. 123	(R. 400)	Z. 81	(.2.13)
				

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