A5.B-Solving Right Triangles, Application of Trig. Functions

Problems 1-5: Using trig functions, write an equation for the triangle and solve for x. Assume all the following are Right Triangles. (Round answers to two decimal places.)



9. From a point on top of a 100-foot cliff, the angle of depression to a cabin below the cliff is 25. How far is the cabin from the base of the cliff?	10. A lookout on a ship spots a school of whales. The lookout is standing 55 feet above the ocean surface and measures an angle of depression to the whales of 3. How far from the ship is the school of whales?	
11. Find the measures of A & B.	12. A Painter leans a 15-ft ladder against a house. The base of the ladder is 5 ft from the house. To the nearest tenth of a foot, how high on the house does the ladder reach?	
13. Divide using Long Division: $\frac{3x^4 - 4x^3 - 8x^2 + 6}{3x - 1}$		



	Name	Period
18. 11. Right triangle $\triangle XYZ$ has side lengths measured in meters, as drawn below. For triangle $\triangle XYZ$, $(\cos X)(\tan X)$ is equivalent to: X $\int_{C} \int_{a} \int_{a}$	19. 9. Right triangle $\triangle XYZ$ has side length feet, as drawn below. For triangle $\triangle x$ is equivalent to: $ \begin{array}{c} x \\ $	gths measured in XYZ, (sin X)(cos Y)
An equation is shown. $M = Rx - \frac{wx^2}{2}$ Solve for w. (a) $w = \frac{2M - Rx}{x^2}$ (b) $w = \frac{Rx - 2M}{x^2}$ (c) $w = \frac{2M - 2Rx}{x^2}$ (c) $w = \frac{2M - 2Rx}{x^2}$ (d) $w = \frac{2Rx - 2M}{x^2}$ 20.	 21. A study says the mean amount of double stuffed Oreo is 1.7 ounces deviation of 0.25 ounces. You wonder if this is really correct started ripping you off. You do as Oreos, and find a mean of 1.55 ou Calculate the Margin of Error. Calculate the Margin of Error. Calculate the Margin of Error. Calculate the Margin of error to calculate confidence interval. Round to the hundredth. Does your Sample provide strong mean amount of cream filling has ounces. 	cream filling in a , with a standard , or if Oreos have sample of 40 unces. culate the Margin ate a 95% e nearest evidence that the changed from 1.7