

<u>Solving Ri</u>	i <u>ght Triangles – Find</u>	ing Missing Sides:	going to use	sin, cos, + tan
-	SOH	CAH	TOA	Tris tunc.
	$\sin x = \frac{ofp}{hyp}$	$\cos x = \frac{adj}{h_{XP}}$	tan x = <u>opp.</u> adj.	

Examples: Find x in each of the triangles below. Round your final answers to the nearest hundredth. (*Figures may not be drawn to scale.*)





Solving Ri	sin ⁻¹ , cos ⁻¹ + tun ⁻¹			
	SOH	САН	TOA	Inverse triz fonc.
	$\sin x = \frac{0}{H}$	$\cos x = \frac{A}{H}$	$tom x = \frac{O}{A}$	







Unit 5 Day 4 CW/HW



13 A ladder 14 feet long rests against the side of a building. The base of the ladder rests on level ground 2 feet from the side of the building. What angle does the ladder form with the ground?





17. The directions for the use of a ladder recommend that for maximum safety, the ladder should be placed against a wall at a 75° angle with the ground. If the ladder is 14 feet long, how far from the wall should the base of the ladder be placed?



x≈ 3.6 ft.

18. A kite is held by a taut string pegged to the ground. The string is 40 feet long and makes a 33° angle with the ground. Supposing that the ground is level, find the vertical distance from the ground to the kite.



19. A wire anchored to the ground braces a 17-foot pole. The wire is 20 feet long and is attached to the pole 2 feet from the top of the pole. What angle does the wire make with the ground?



20. A jet airplane begins a steady climb of 15° and flies for two ground miles. What was its change in altitude?

