7.4 Finding Missing Angle Measurements Using Trig Ratios

NAME:	HOUR:

Use inverse trig operations to find each angle measure to the *nearest degree*.

v = 0.8829	2. $\tan w = 57.2900$	$3.\cos v = 0.5878$
v = 0.8829	2. $\tan w = 57.2900$	$3.\cos v = 0.58$

4. $\cos b = 0.1736$ 5. $\tan w = 4.0108$ 6. $\sin z = 0.6691$

Find the measure of the indicated angle to the *tenth of a degree*. Show your work.









Application

15. A ladder 3 m long leans against a wall. It reaches 2m up the wall. What angle does the ladder make with the ground?



16. A builder wishes to construct a ramp 24 feet long that rises to a height of 5 feet above the ground. Sketch a picture of the problem and use trig ratios to find the angle of elevation of the ramp.