The Tangent Ratio







5) Why would the tan $0^\circ = 0$ but the tan $90^\circ = error$?

The only way to get zero is a fraction is if you use 0... So, for 0° the triangle would have NO opposite: $\tan 0^\circ = \frac{0}{adj}$ But for 90° the triangle would have NO adjacent: $\tan 90^\circ = \frac{opp}{0}$



Assignment = worksheet

The Tangent Ratio



. Commercial airplanes fly at an altitude of about 10 km. During a landing approach, a pilot wants the plane's path to make an angle of 4° with the ground. How far from the airport must the pilot begin the descent?

Airpla	ne			
			4° (Airport
	9	?		

1

Determine the height of a tree casting a 15 m shadow at the same time as the sun's rays make a 33° angle with the ground.

c)

10)



Now try text			
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5a)	b)	c)	d)

14)

4)

Page 82 5a)

7)

19)

8)

b)