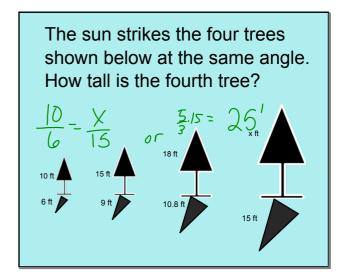
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Algebra 1
Lesson 10-6
Trigonometric Ratios

Goal: to find and use trig ratios for right triangles



When we are dealing with right triangles, the ratios of side lengths form trigonometric ratios.

A

Sine A

sin A = OPP

cos A = OPP

tan A = OPP

cos A = OPP

cos A = OPP

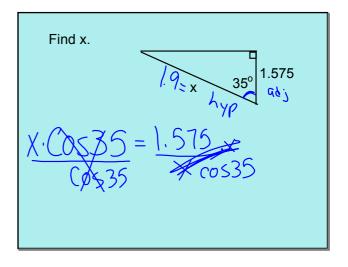
tan A = OPP

cos A = OPP

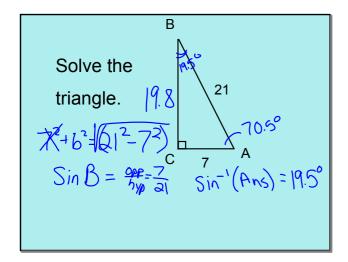
c

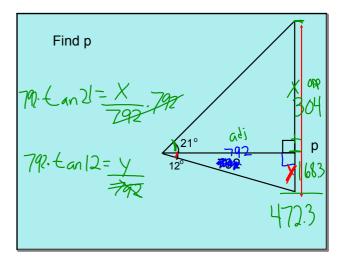
SohCahToa

Give the sin A, $\cos A$, and $\tan A$: $\frac{1}{4} \cos B = \frac{8}{15}$ Sin A = $\frac{600}{17} = \frac{15}{17} = \frac{15}{17}$ Cos A = $\frac{15}{17} = \frac{15}{17} = \frac{15}{15}$ We can use the trig functions on our calculators to help us find an angle measure.

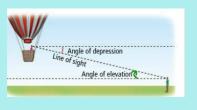


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An angle of depression is when you are looking down.



An angle of elevation is when you are looking up.

Suppose a plane takes off at an angle of 42 degrees with the ground. What horizontal distance has the plane traveled when it reaches an altitude of 30,000 feet?

Hwk: pg. 649 - 650

#8 - 16 evens, 17, 18,

26 - 34 evens, 35, 38,

39 - 43 all