Do Now: Decide whether the set of numbers can represent the side lengths of a triangle. If they can classify the triangle as right, acute, or obtuse.

a. 5, 5,5√2

b. 4, 6, 12

Unit 9 Day 3: **Trigonometry** 9.3: Special Right Triangles

Today's I Can Statement:

TR-5: I can use side ratios to find missing side lengths in special right triangles.

Feb 9-7:49 PM Feb 9-7:39 PM

Special Right Triangles

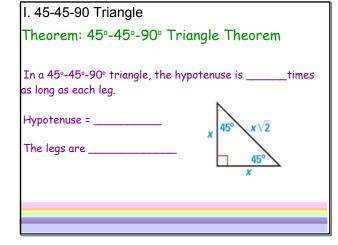
450 - 450 - 900

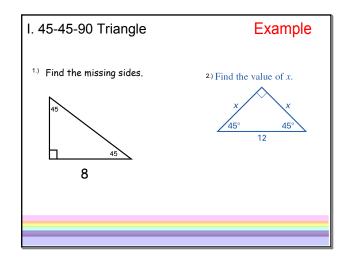
- Draw an isosceles right triangle with leg length of 3, 4, or 5.
 Use Pythagorean theorem to find the hypotenuse.
 Compare the leg length to the hypotenuse in a 45-45-90 triangle and write a conclusion based on what you see.

I. 45-45-90 Triangle Can you write a statement about the relationship between the lengths of the sides of a 45-45-90 triangle? 5

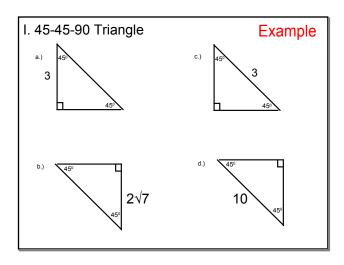
Feb 27-10:10 AM

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Feb 9-7:52 PM Feb 9-7:54 PM



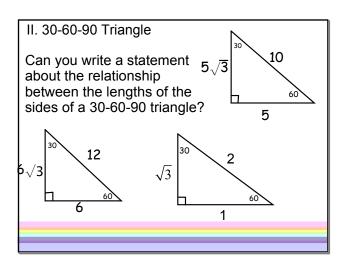
Feb 27-10:11 AM Feb 27-10:11 AM

II. 30-60-90 Triangle

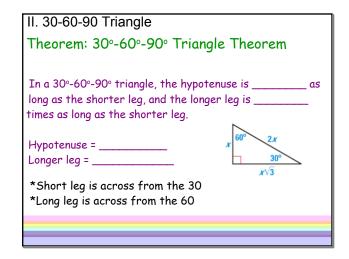
Special Right Triangles

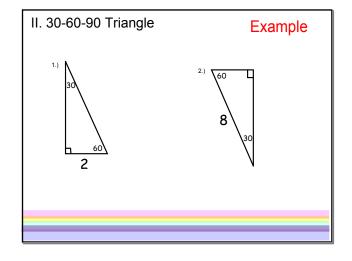
30° - 60° - 90°

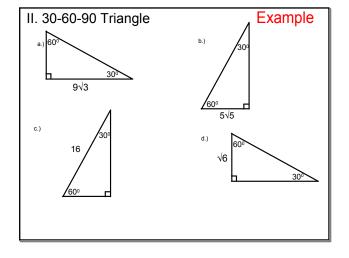
1.) Draw an equilateral triangle with side length of 10 or 20.
2.) Draw in the altitude to the base. (cuts the base in half)
3.) Use Pythagorean theorem to find the altitude.
4.) Compare the leg length to the hypotenuse in a 30-60-90 triangle and write a conclusion based on what you see.



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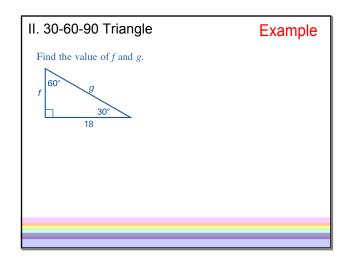


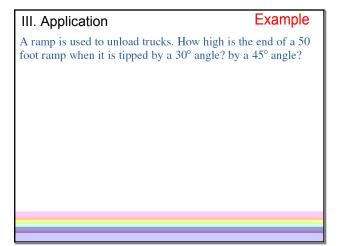




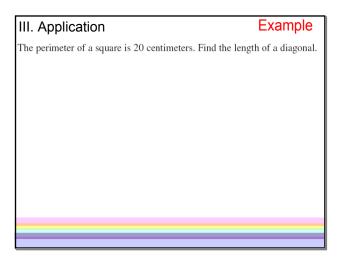
Feb 18-12:51 PM Feb 27-10:12 AM

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Feb 9-8:02 PM Feb 9-8:02 PM



Tonight's Assignment:
 p.475 #3-10, 13-16, 22

Quiz Tuesday 2/18 Wednesday 2/19

Today's I Can Statement:

TR-5: I can use side ratios to find missing side lengths in special right triangles.

Feb 9-8:02 PM Feb 9-8:02 PM

