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9.1 Pythagorean Theorem CYU

☐ Use when you get it right all by yourself

SUse when you did it all by yourself, but made a silly mistake HUse when you could do it alone with a little help from teacher or peer

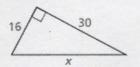
G Use when you completed the problem in a group

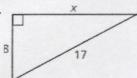
X Use when a question was attempted but wrong (get help)

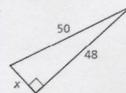
NUse when a question was not even attempted

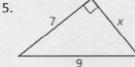
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Solving right triangles	1 - 3	5, 15	4, 16
Pythagorean Triples	1 - 3	5, 15	4, 16
Pythagorean Theorem	6	7, 15	16
Error Analysis	6	7	
Modeling with Mathematics	8		
Pythagorean Inequality Theorem	9, 12	10, 13	11, 14
Triangle Inequality Theorem (Is it a triangle?)	12	13	14
Area of Isosceles Triangles		15	16

Find the value of x. Then tell whether the side lengths for a Pythagorean triple.



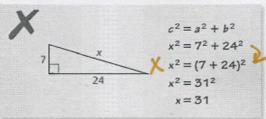






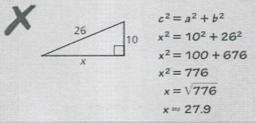
x=452; no

ERROR ANALYSIS Describe and correct the error in using the Pythagorean Theorem.



Exponents cannot be distributed as shown in

X = 25



potenuse, it should be "c".

8. **MODELING WITH MATHEMATICS** The fire escape forms a right triangle, as shown. Use the Pythagorean Theorem to approximate the distance between the two platforms.



~ 14.1 ft

Determine if the triangle is a right triangle. Show work!

9. 65 97 72

5

11. 2 6 3√5

no

yes

Verify that the segment lengths for a triangle. Is the triangle acute, right, or obtuse? Show work 12. 5.3, 6.7, & 7.8 13. 10, 15, & $5\sqrt{13}$ 14. 4.1, 8.2, & 12.2

a+b7c a+c>b a+c>a

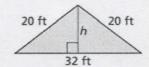
yes; acute

yes; right

yes; obtuse

Find the area of the isosceles triangle.

15.



A = 192 ft 2

16. 50 m h 50 m

A=672 m2

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

