Name Class Date

The Pythagorean Theorem Part 2

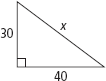
**Algebra Find the value of *x.***

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**2.**

**1.**

**4.**

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**3.**

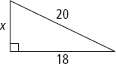
**Does each set of numbers form a Pythagorean triple? Explain**.

**5.** 6, 8, 10

**6.** 7, 16, 18

**7.** 16, 30, 34

**Algebra Find the value of *x.* Express your answer in simplest radical form.**

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**10.**

**8.**

**9.**

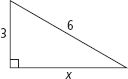
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**13.**

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**12.**

**11.**

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**14.** A window washer has an 18-ft ladder. He needs to reach the bottom of a  
window 16 feet off the ground. How far out from the building should the  
base of the ladder be? Round to the nearest tenth of a foot.

**Is each triangle a right triangle? Explain.**

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**17.**

**16.**

**15.**

**The lengths of the sides of a triangle are given. Classify each triangle as *acute,  
right,* or *obtuse.***

|  |  |  |
| --- | --- | --- |
| **18.** 9, 11, 16 | **19.** 4, 6, 7 | **20.** 6, 8, 12 |
| **21.** 24, 70, 74 | **22.** 10, 12, 14 | **23.** 20, 25, 31 |