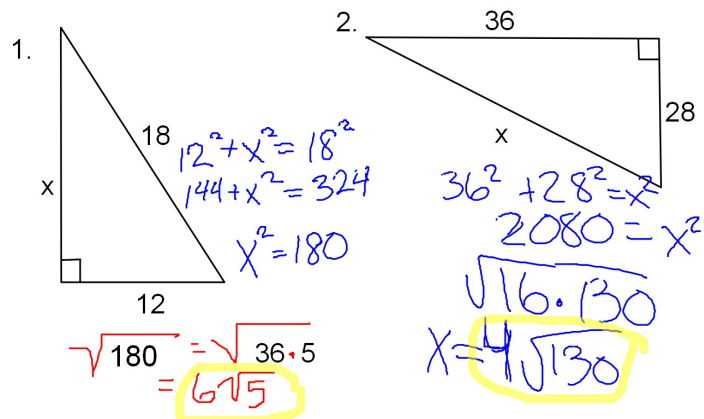


Find the missing side in each triangle. For non-integer answers leave the answer in simplified radical form.



Does each set of lengths form a right triangle?

3. 16, 30, 34

Yes

$$16^2 + 30^2 = 34^2$$

$$256 + 900 = 1156$$

$$1156 = 1156$$

4. 11, 59, 61

No

5. Is this a Pythagorean Triple?

14, 48, 50

Yes

$$14^2 + 48^2 = 50^2$$

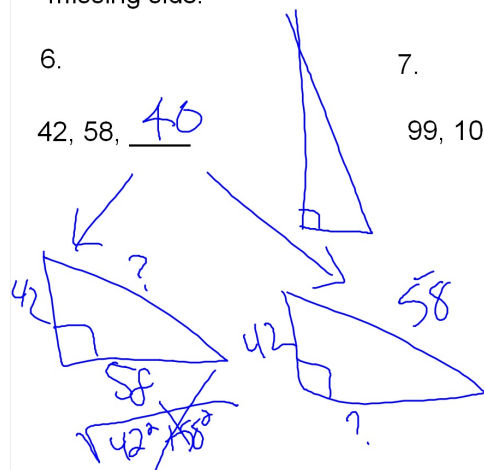
$$196 + 2304 = 2500$$

$$2500 = 2500$$

Each set of numbers are sides of a right triangle. All missing numbers are natural numbers. Find the missing side.

6.

42, 58, 40



7.

99, 101, 20

$$\sqrt{99^2 + 101^2} =$$

or

$$\sqrt{101^2 - 99^2} = 20$$

$$\sqrt{58^2 - 42^2} = 40$$

8. Find the value of x.

