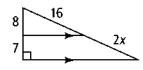
Geometry Homework - 7-5 and 8-1

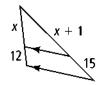
Name: ______Date: _____Block: _____

Algebra **Solve for** *x***.**

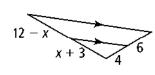
1)



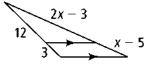
2)



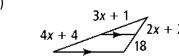
3)



4)



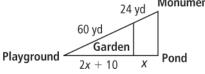
5)



6) The map at the right shows the walking paths at a local park. The garden walkway is parallel to the walkway between the monument and the pond. How long is the path from the pond to the playground?

24 vd Monum

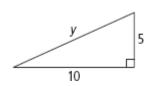
ne pond. How long is the path from the pond to the playground?



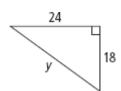
- 7) Triangle QRS has line XY parallel to side RS. The length of QY is 12 in. The length of QX is 8 in.
- a) Draw a picture to represent the problem.
- b) If the length of XR is 5 in., what is the length of QS?

Algebra Find the value of the variable. Express in simplest radical form.

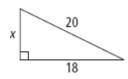
8)



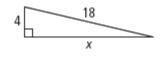
9)



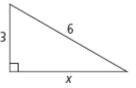
10)



11)



12)



13) A repairman leans the top of an 8-ft ladder against the top of a stone wall. The base of the ladder is 5.5 ft from the wall. About how tall is the wall? Round to the nearest tenth of a foot.

For each pair of numbers, find a third whole number such that the three numbers form a Pythagorean triple.

Is each triangle a right triangle? Explain.

16)



17



18) The playing surface of a football field is 300 ft long and 160 ft wide. If a player runs from one corner of the field to the opposite corner, how many feet does he run?

19) **Reasoning** In parallelogram ABCD, AB = 20, BC = 15, and AC = 22. Is ABCD a rectangle? Explain.