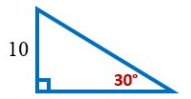
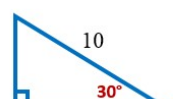
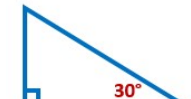



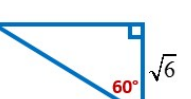
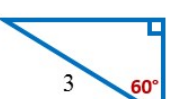


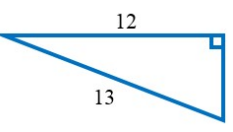
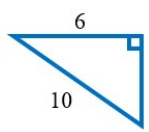
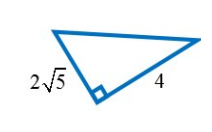
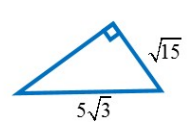
Find the missing sides on the Special Right Triangles:

1. 	2. 	3. 	4. 
5. 	6. 	7. 	8. 

Jumbled Answers:

$3\sqrt{2}$ $2\sqrt{6}$ $\sqrt{5}$ $3\sqrt{3}$ $\sqrt{15}$ $6\sqrt{3}$ $\frac{20\sqrt{3}}{3}$ $\frac{3}{2}$ $2\sqrt{3}$ $\frac{3\sqrt{3}}{2}$ 20 $10\sqrt{3}$ $\frac{10\sqrt{3}}{3}$ $\sqrt{3}$ 5 $5\sqrt{3}$

Use the Pythagorean Theorem to find the missing side of each right triangle. These are not 30-60-90 or 45-45-90, so you can't use the special right triangles ratios.

9. 	10. 	11. 	12. 
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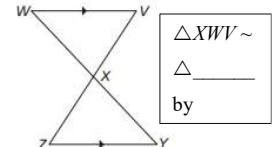
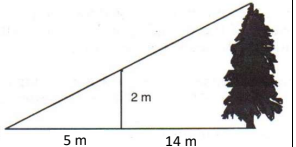
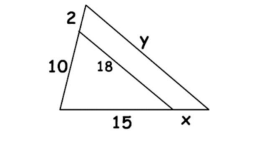
Jumbled Answers: $3\sqrt{10}$ 5 8 6 7 $2\sqrt{15}$

Solve each equation:

13. $6x^2 + 5 = 3x^2 + 17$	14. $8x^2 - 3 = 3x^2 + 97$	15. $\frac{x}{9} = \frac{3}{x}$	16. $\frac{2x+1}{5} = \frac{2}{x}$
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Jumbled Answers: $\pm 3\sqrt{3}$ 2 $\frac{-5}{2}$ $\pm 2\sqrt{5}$ ± 2

Review:

17. Show that the two \triangle 's are similar and by which property.  $\triangle XWV \sim$ \triangle _____ by _____	18. Find the height of the tree. (Why are the \triangle 's similar?) 	19. The \triangle 's are similar. Find the value of x and y. 
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Jumbled Answers to 18, 19: 3 5.6 21.6 7.6

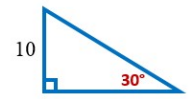
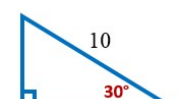





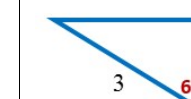
20. Draw $\triangle ABC$ by plotting the points. $A(0,5)$, $B(0,0)$ and $C(5,0)$.

Find the length of \overline{AC} using three methods: SHOW ALL WORK CLEARLY

- a) The distance formula. b) The Pythagorean Theorem c) Special Right Triangles

$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

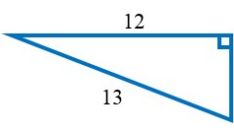
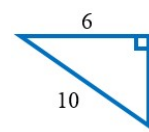
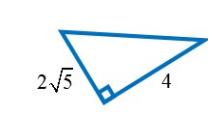
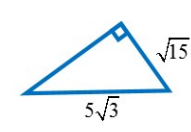
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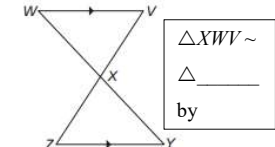
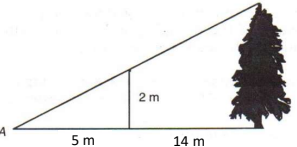
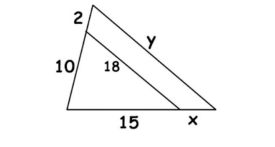
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