Name _____ **Hour** _____

Geometry Chapter 8

Radicals & Special Right Triangles Review

Reduce the following radical expressions.

1. $\sqrt{32}$
2. $\sqrt{8}$
3. $2\sqrt{64}$
4. $\sqrt{50}$
5. $\sqrt{48}$
6. $\sqrt{128}$
7. $\sqrt{300}$
8. $3\sqrt{18}$

Rationalize the denominator for each of the following radical expressions.

9. $\frac{3}{\sqrt{2}}$
10. $\frac{1}{\sqrt{3}}$
11. $\frac{20}{\sqrt{5}}$
12. $\frac{4\sqrt{3}}{\sqrt{2}}$

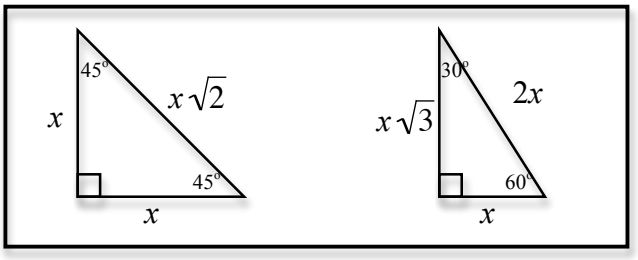
Simplify the radical expressions below. Reduce if necessary.

13. $6 \cdot \sqrt{7}$
14. $\sqrt{3} \cdot \sqrt{3}$
15. $10 \times 2\sqrt{5}$
16. $2\sqrt{2} \times 2\sqrt{3}$
17. $6\sqrt{8} \cdot 3\sqrt{3}$

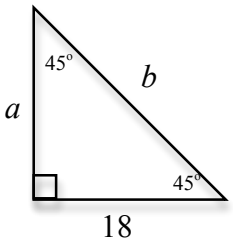
Name _____ **Hour** _____

Geometry Chapter 8

Find the missing sides of the following special right triangles.



18.



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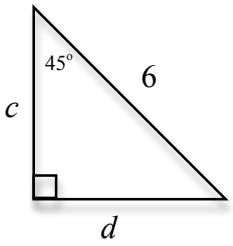

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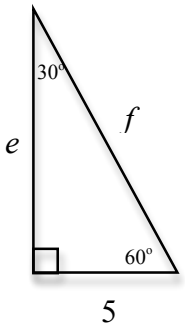

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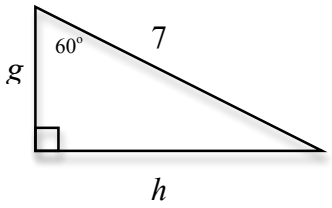

22.