

A1 S2 w12d1 Review Radicals

Alg 1 Mon Week 12

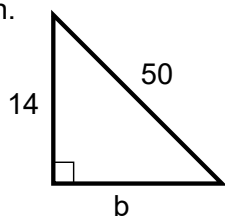
Warm Up

Academic Recovery this week for Chapter 9 Test

1. Skill 18: Solve a Quadratic Equation using the Quadratic Formula: $2x^2 - 4x = 3$

answers rounded to the nearest hundredth_____ answer as simplified radicals_____

2. Find the missing side length of the right triangle. Round your answer to the nearest tenth.



3. Do these side lengths form a right triangle: 8, 15, 17? Show how you know.

4. Simplify the radical expression:

a. $\sqrt{10} \cdot \sqrt{18}$

b. $\frac{-3\sqrt{14x^3}}{-21\sqrt{x^2}}$

5. Multiply: $(3\sqrt{2} + 5)(\sqrt{6} - 3)$

6. Solve by Completing the Square.

$$x^2 - 4x - 12 = 0$$

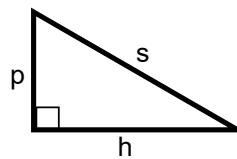
7. Solve by factoring. $9x^2 - 25 = 0$



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CW/HW p 632 Mid-Chapter Quiz: 1-26 (omit 15, 19)

Use the triangle to the right. Find the missing side length. If necessary, round to the nearest tenth.



1. $p = 20, h = 25$

2. $p = 0.8, h = 1.5$

3. $p = 5, h = 12$

4. $p = 2.2, h = 12$

5. $p = 14, s = 50$

6. $p = 9, s = 41$

7. $h = 40, s = 41$

8. $h = 36, s = 39$

Determine whether the given lengths can be side lengths of a right triangle.

9. 8, 15, 17

10. 5, 24, 25

11. 60, 80, 100

Simplify each radical expression.

12. $\sqrt{80}$

13. $\sqrt{10} \cdot \sqrt{18}$

14. $\sqrt{6x} \cdot \sqrt{2x}$

16. $\sqrt{\frac{64}{81}}$

17. $-\frac{\sqrt{5c}}{\sqrt{45c^3}}$

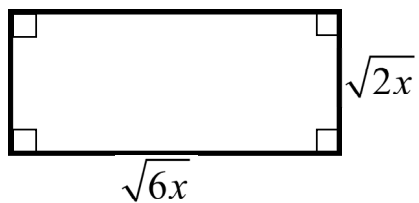
18. $\frac{-3\sqrt{14x^3}}{-\sqrt{21x}}$

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20. A rectangular soccer field is $6w$ yards wide and $10w$ yards long. What is an expression for the distance from one corner to the opposite corner?

Find the area of each figure.

21.



22.

