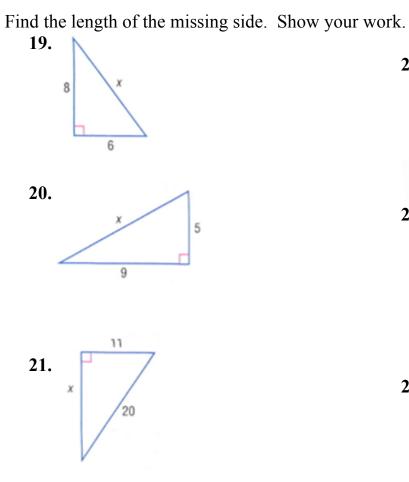
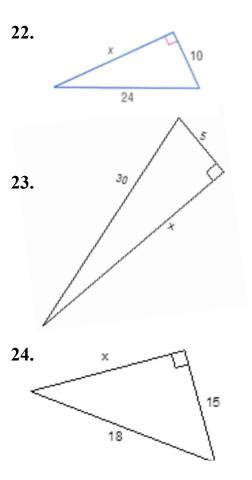
| NAME: | Period: | SCORE: | / | = | |
|---------------------------|----------------------|---------|-----|--------------|--------|
| | HW 5-1 | | | | |
| | Pythagorean Theo | rem and | | | |
| Sec 1 H | Simplifying Ra | dicals | | | Unit 5 |
| Simplify each expression. | | | | | |
| 1. $\sqrt{169}$ | 7. $\sqrt{6}$ | | 13. | $\sqrt{27}$ | |
| | | | | | |
| 2. $\sqrt{36}$ | 8. $\sqrt{756}$ | | 14. | $\sqrt{16}$ | |
| | | | | | |
| 3. $\sqrt{25}$ | 9. $\sqrt{600}$ | | 15. | $\sqrt{243}$ | |
| | | | | | |
| 4. $\sqrt{30}$ | 10. $\sqrt{35}$ | | 16. | $\sqrt{54}$ | |
| | | | | | |
| 5. $\sqrt{75}$ | 11. $\sqrt{64}$ | | 17. | $\sqrt{24}$ | |
| | | | | | |
| 6. $\sqrt{45}$ | 12. $\sqrt{50}$ | | 18 | $\sqrt{72}$ | |



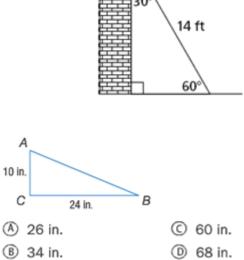


- Is it possible to form a right triangle with these three lengths?
 SHOW YOUR WORK!

 25. 65, 72, 97
 27. 15, 27, 12
 - **26.** 28, 195, 197 **28.**

30. What is the perimeter of the right triangle *ABC*?

29. A 14 foot piece of wire is strung from the top of a building to a point on the ground that is 6.5 feet from the base of the building as shown in the diagram. How tall is the building?



30, 122, 125

Find the missing side of each right triangle.

