Exercise Set 10.4

Express each square root in its simplest form.

- 1. 190 3110 2. √96 **4√6**
- 3. \(\sqrt{120} \) 2\(\sqrt{3}\) 4. \(\sqrt{185}\) \(\sqrt{185}\) 5. \(\sqrt{490}\) 7\(\sqrt{6}\)
- 6. √576 **24**

Express each product in its simplest form.

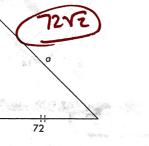
- 11. $(2\sqrt{2})^2$
- 12.* $(4\sqrt{3})^2$ 48 13. $(5\sqrt{5})(\sqrt{3})$ 56 14.* $(2\sqrt{6})(\sqrt{12})^{272}$ 15.* $(6\sqrt{8})^2$ 288

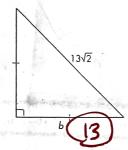
Solve Exercises 16-30 by using your new conjectures. In most of the exercises, you don't need to use the Pythagorean Theorem. All measurements are in centimeters.

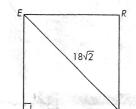
16. a = -?-

17.*b = -?-

18. What is the perimeter of square SQRE?

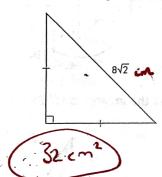


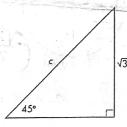




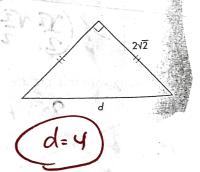
- 19.* What is the area of the triangle?
- **20.** *c* = -?-

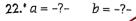
21. d = -?-

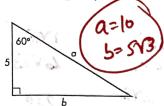




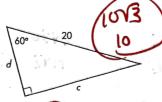




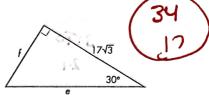




23. c = -?d = -?-

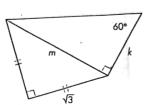


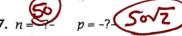
24. e = -?- f = -?-

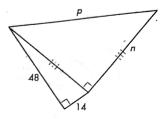


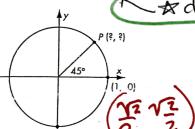
25.
$$g = -? h = -?-$$



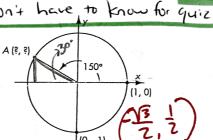




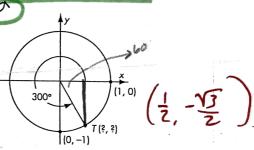




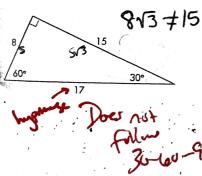
* don't have to



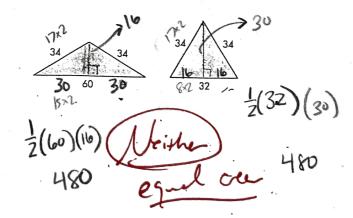
Find the coordinates of T.



What's wrong with this picture?



32. Which triangle has the greater area? Explain.



14)