

HOMEWORK 23
April 18, 2021

*I would like to remind you that the homework should be done on a separate piece of paper. There is not enough space on this handout to show all work. **You must show all steps!***

1. Rationalize the denominator:

a) $\frac{5}{\sqrt{5}} =$

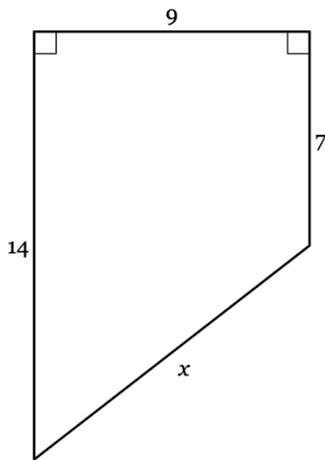
b) $\frac{2}{\sqrt{7}} =$

d) $\frac{4}{\sqrt{6}} =$

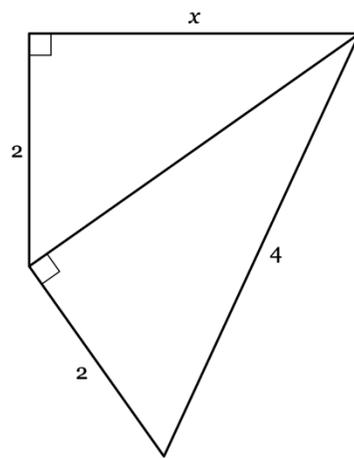
e) $\frac{6}{\sqrt{2}} =$

2. Find the perimeter and the area of each figure below. Round your answer to the nearest tenth.

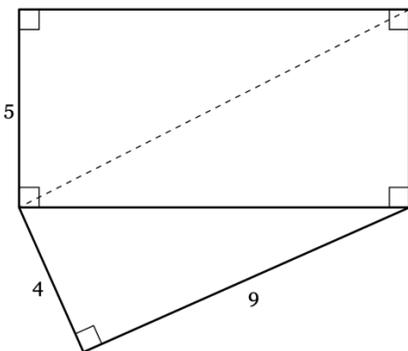
a)



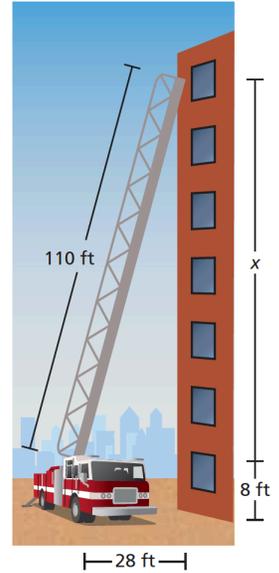
b)



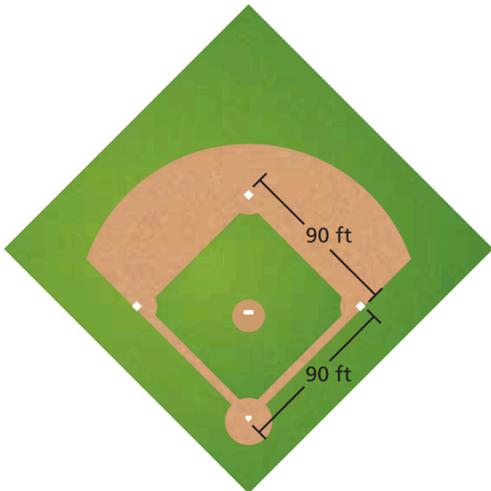
c)



3. The recommended angle for a firefighting ladder is 75° . When a 110-foot ladder is put up against a building at this angle, the base of the ladder is about 28 feet from the building. The base of the ladder is 8 feet above the ground. How on the building will the ladder reach? Round your answer to the nearest tenth.



4. A baseball player throws a ball from second base to home plate. How far does the player throw the ball?



5. This toy is a series of isosceles triangles. If $AB = 2$, find AC , BC , CD , CF , BD , DE , EF , and DF .

