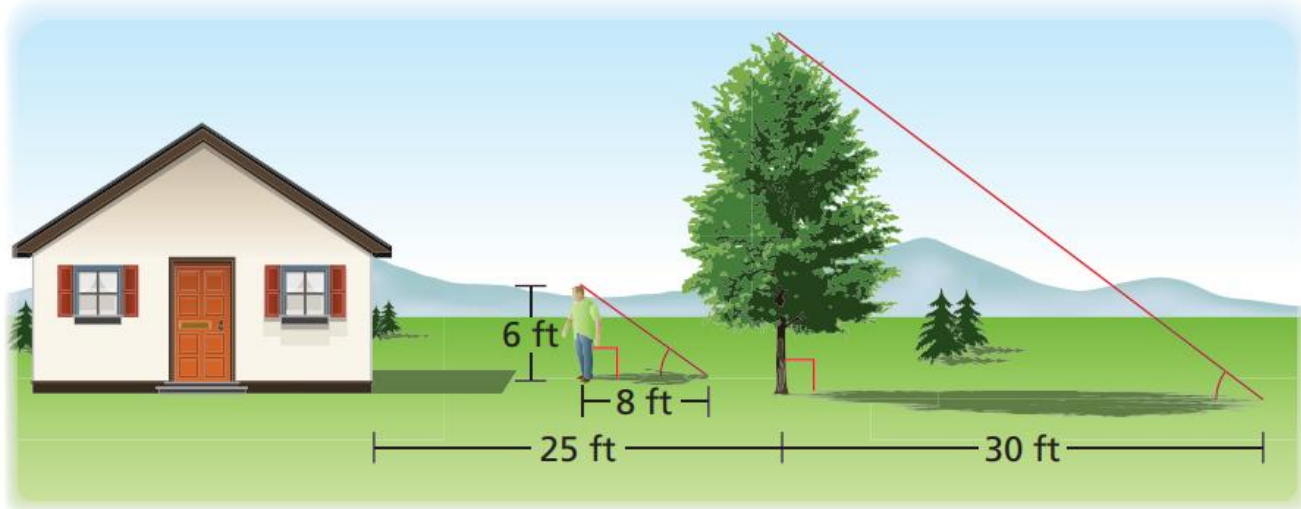



Solve Proportions

You take the measurements shown in the diagram. The right triangles created by each object and its shadow are similar. Can the tree fall onto the house?



You are 5 feet 4 inches tall and cast a shadow 3 feet long. At the same time, a nearby water tower casts a shadow 74 feet 3 inches long. Find the height of the water tower.

The diagram shows statistics for a baseball pitcher. Use rates to compare the pitcher's performance in 2019 to his performance in 2020.



SEASON	INNINGS	HITS	EARNED RUNS	WALKS	STRIKEOUTS
2019	70	54	19	29	100
2020	50	42	15	20	73

Convert 4.8 gallons to fluid ounces.

Convert 2.5 meters to inches. Round to the nearest hundredth, if necessary.

Convert 88 gallons per minute to liters per second.
Round to the nearest hundredth, if necessary.

Wind speeds on Jupiter can reach 180 meters per second. Which planet has faster winds, Jupiter or Neptune?

The Voyager 2 performed the first flyby of Neptune in 1989, measuring wind speeds that reached 1200 miles per hour.