Chapter 8 Review-Jeopardy Game

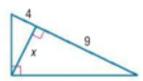
8-1 Geometric Means

10-Find the geometric mean between 9 and 8.

6JZ

20-Find x.





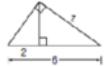
30-Find JL





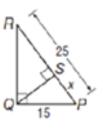
40-Find z





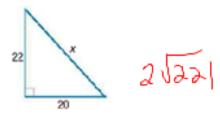
50-Find x



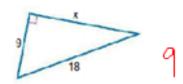


8-2 Pythagorean Theorem

10-Find x



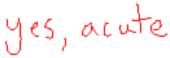
20-Find x



30- Determine whether 7, 24, and 25 could be the sides of a triangle. If so, classify the triangle as acute, obtuse or right.

yes, right

40- Determine whether 13, 15, and 16 could be the sides of a triangle. If so, classify the triangle as acute, obtuse or right.

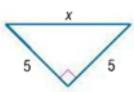


50- Determine whether 65, 72, and 140 could be the sides of a triangle. If so, classify the triangle as acute, obtuse or right.

8-3 Special Right Triangles 45°-45°-90°

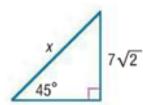
10-Find x





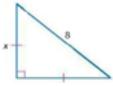
20-Find x

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30-Find x





40-What is the length of the diagonal of a square if the length of the leg is $6\sqrt{2}$?

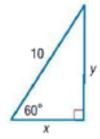


50-Find the perimeter of a square if the length of the diagonal is 10.

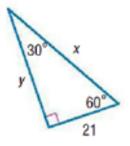


8-3 Special Right Triangles 30°-60°-90°

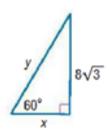
10-Find x and y



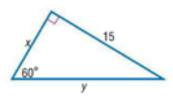
20-Find x and y



30-Find x and y



40-Find x and y

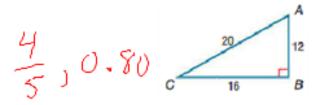


50- An equilateral triangle has an altitude length of 18 feet. Determine the length of a side of the triangle.

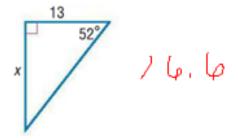
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8-4 Trigonometry

10- Express Sin A as a fraction and as a decimal rounded to the nearest hundredth.



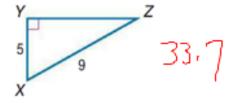
20-F ind x. Round to the nearest tenth.



30-Find x. Do NOT give a decimal answer.



40-Find the measure of angle Z to the nearest tenth.



50-Find the measure of angle Z to the nearest tenth.



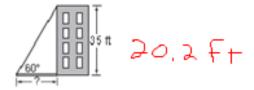
Miscellaneous

20-The springboard that Eric uses in his gymnastics class has 6-inch coils and forms an angle of 14.5° with the base. About how long is the springboard?



40- Alexi walks 27 meters south and 38 meters east to get around a lake. Her sister swims directly across the lake. How many meters to the nearest tenth did Alexi's sister save by swimming?

60-Suppose the sun casts a shadow off a 35-foot building. If the angle of elevation to the sun is 60°, how long is the shadow to the nearest tenth of a foot?



80- Find the length of the side of an equilateral triangle that has an altitude length of 24 feet.



100- A ski run is 1000 yards long with a vertical drop of 208 yards. Find the angle of depression from the top of the ski run to the bottom. Round to the nearest degree.

