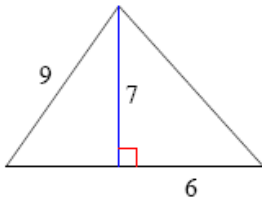


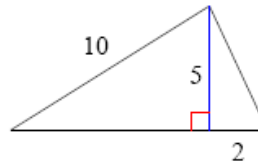
Geometry Review
Review for Quiz

Find the area of each triangle. Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.

1)

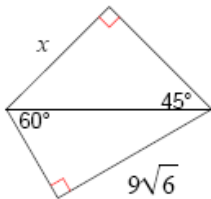


2)

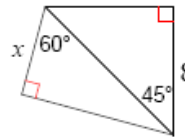


Find the missing side lengths. Leave your answers as radicals in simplest form.

3)

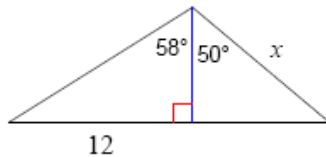


4)

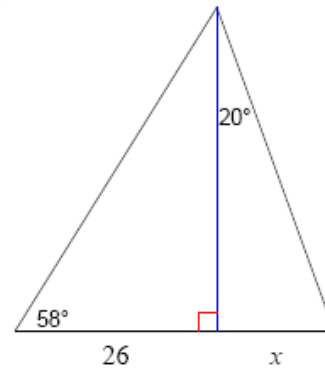


Find the length of the side labeled x . Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.

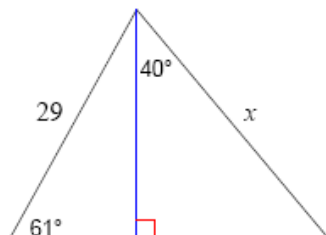
5)



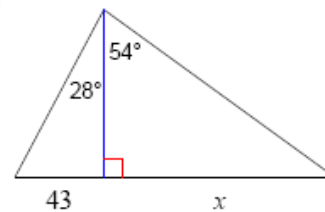
6)



7)



8)



$$9) \frac{5 - 3\sqrt{3}}{\sqrt{2} - \sqrt{3}}$$

$$10) \frac{4 + \sqrt{3}}{2 - 5\sqrt{5}}$$

$$11) (-1 + \sqrt{2})(2 - \sqrt{2})$$

$$12) (1 - 3\sqrt{2})(5 + \sqrt{2})$$

$$13) \sqrt{96x^2}$$

$$14) \sqrt[3]{-32n^5}$$

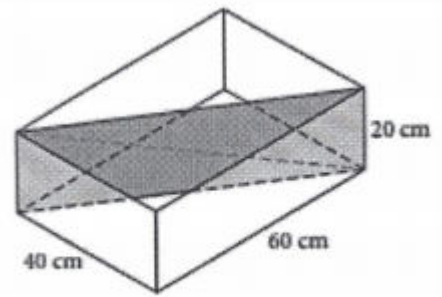
$$15) -3\sqrt{5} + 2\sqrt{6} - 2\sqrt{5}$$

$$16) -\sqrt{6} - \sqrt{2} - 3\sqrt{2}$$

17) A rectangular piece of cardboard fits snugly on a diagonal in this box.

a) What is the area of the cardboard rectangle?

b) What is the length of the diagonal of the cardboard rectangle?



18) The congruent sides of an isosceles triangle measure 6 cm, and the base measures 8 cm. Find the area.

19) Amir's sister is away at college and he wants to mail her a 34-in baseball bat. The packaging service sells only one kind of box, which measures 24 in by 2 in by 18 in. Will the box be big enough? Show your work and explain why or why not.

20) The front and back walls of an A-frame cabin are isosceles triangles, each with a base measuring 10 m and legs measuring 13 m. The entire front wall is made of glass 1 cm thick and costs \$120/sq. m. What did the glass for the front wall cost?