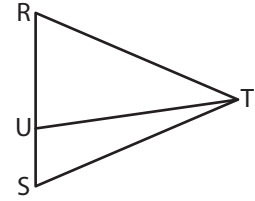


# Area of a Triangle

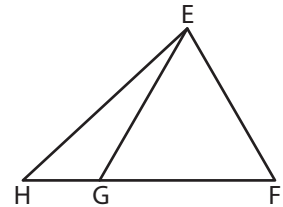
Round your answer to two decimal places.

- 1) The area of the triangle  $RST$  is 21 square feet. If  $\overline{US}$  measures 2 feet and the length of  $\overline{RU}$  is twice the length of  $\overline{US}$ , what is the area of the triangle  $RUT$ ?



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- 2)  $EFG$  is an equilateral triangle. If the area of the triangle  $EGH$  is 16 square yards and  $\overline{EG}$  measures 9 yards, find the area of the triangle  $EGF$ .



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- 3) In triangle  $ABC$ , the altitude  $CD$  is drawn. If  $\overline{AD}$  measures 4 units and  $\overline{DB}$  measures 6 units, find the area of the triangle  $ABC$ .

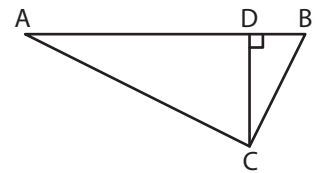
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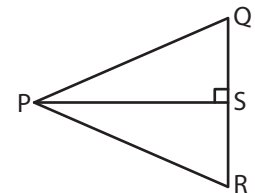
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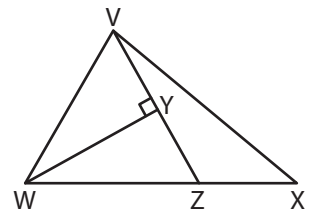
- 4)  $PQR$  is an isosceles triangle with  $\overline{PQ} = \overline{PR}$ . The altitude  $QS$  is drawn. If  $\overline{QS}$  measures 18 inches, find the area of the triangle  $PQR$ .

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- 5) Triangle  $VWX$  has an area of 700 square yards. If  $\overline{WY}$  and  $\overline{VZ}$  measure 28 yards and 35 yards respectively, what is the area of the triangle  $VZX$ ?

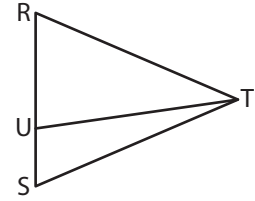


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**Area of a Triangle**

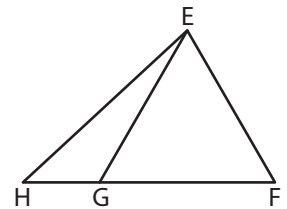
Round your answer to two decimal places.

- 1) The area of the triangle RST is 21 square feet. If  $\overline{US}$  measures 2 feet and the length of  $\overline{RU}$  is twice the length of  $\overline{US}$ , what is the area of the triangle RUT?



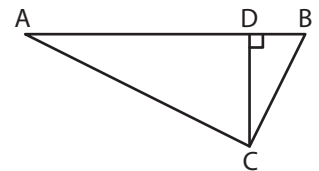
**14 square feet**

- 2) EFG is an equilateral triangle. If the area of the triangle EGH is 16 square yards and  $\overline{EG}$  measures 9 yards, find the area of the triangle EGF.



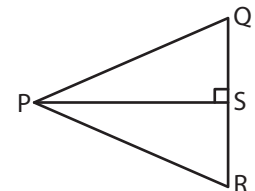
**51.07 square yards**

- 3) In triangle ABC, the altitude  $\overline{CD}$  measures 10 inches. If  $\overline{AD}$  measures 6 inches, find the area of the triangle ABC.



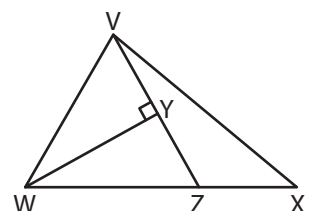
**500 square inches**

- 4) PQR is an isosceles triangle with  $\overline{PQ} = \overline{PR}$ . The length of the altitude  $\overline{QS}$  is 18 inches. Find the area of the triangle PQR.



**41 square inches**

- 5) Triangle VWX has an area of 700 square yards. If  $\overline{WY}$  and  $\overline{VZ}$  measure 28 yards and 35 yards respectively, what is the area of the triangle VZX?



**210 square yards**

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