

Right Triangle Tools:

- SOHCAHTOA (Trigonometry)

- Pythagorean Theorem

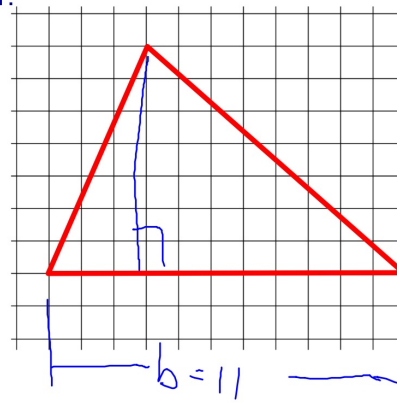
- Special Rt. Triangles (30° - 60° - 90° and

45° - 45° - 90°) - 12

13 → Between legs
2 → HYP & SL

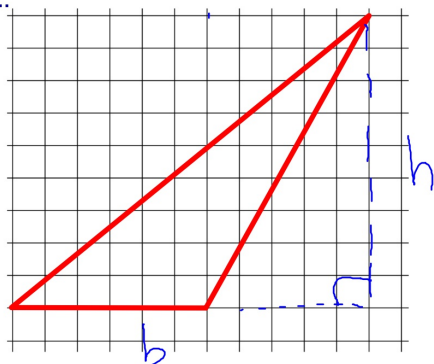
Find the area of each triangle.

1.



$$= \frac{1}{2}bh = \frac{1}{2}(11)(7) = 38.5$$

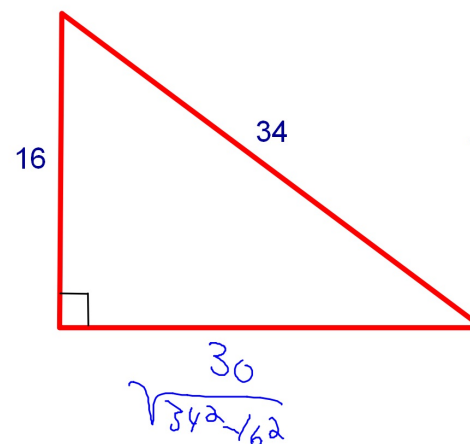
2.



$$\frac{1}{2}bh$$

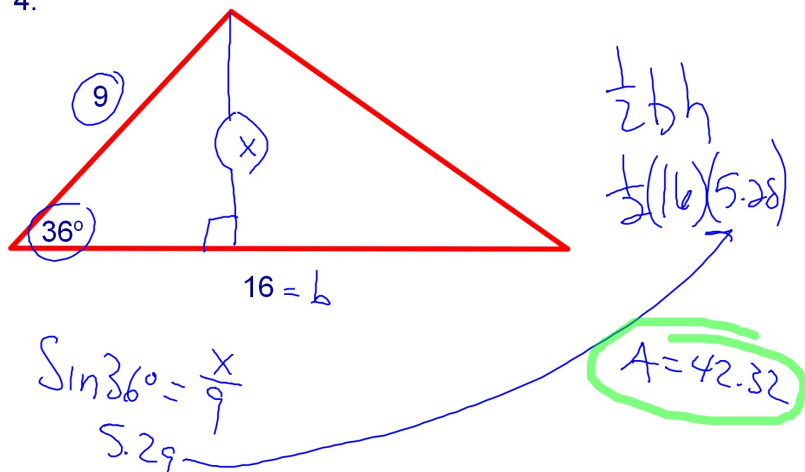
$$\frac{1}{2}(6)(9) = 27$$

3.



$$\frac{1}{2}(16)(30) = 240$$

4.

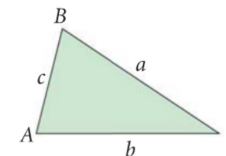


Theorem 10-8

Area of a Triangle Given SAS

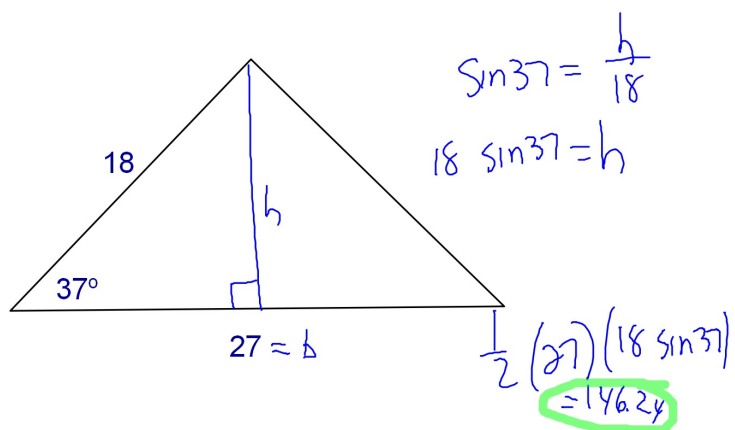
The area of a triangle is one half the product of the lengths of two sides and the sine of the included angle.

$$\text{Area of } \triangle ABC = \frac{1}{2}bc(\sin A)$$

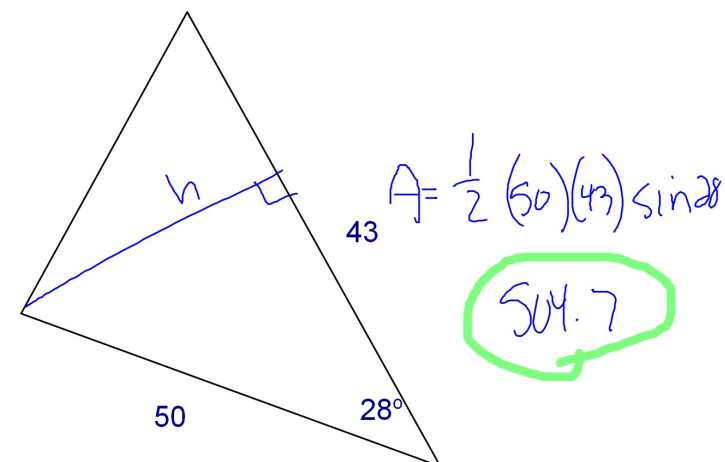


Find the area of each triangle to the nearest tenth.

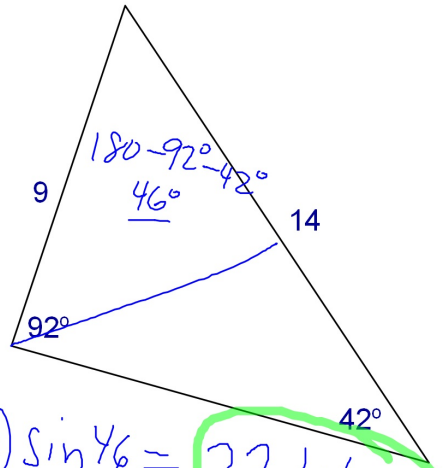
1.



2.



3.



Hwk #25

Sec 10-5

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Problems 2, 4, 7, 11, 12, 25, 26