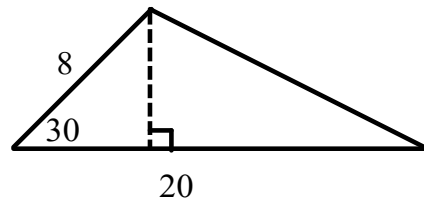
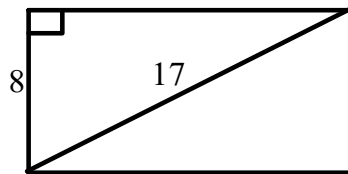


Warm-Up

1) Find the area of the triangle.



2) Find the area of the rectangle.



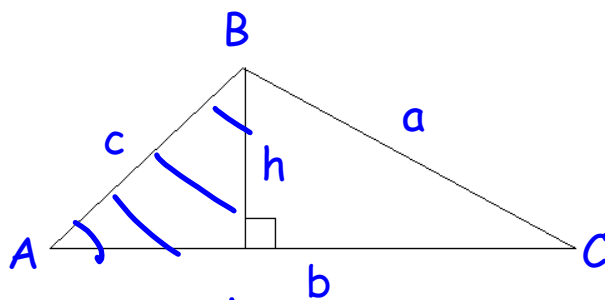
Feb 1 - 11:58 AM

Area of Triangles Notes

Tonight's HW:
Worksheet #10.1

Jan 1 - 9:26 PM

Area of A Triangle (Given SSS)



$$\sin A = \frac{h}{c}$$

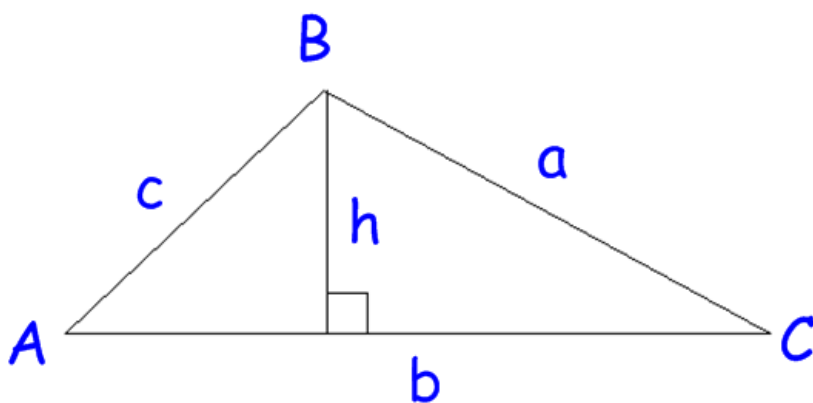
- Solve for h $c \sin A = h$

$$K = \frac{1}{2} b \boxed{h} = \frac{1}{2} b c \sin A$$

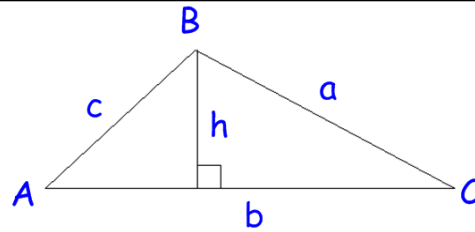
$$K = \frac{1}{2} a b \sin C$$

$$K = \frac{1}{2} a c \sin B$$

Jan 5 - 6:45 AM



Jan 29-4:50 PM



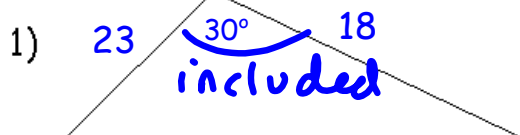
$$K =$$

$$K =$$

$$K =$$

Jan 5 - 6:45 AM

Examples:

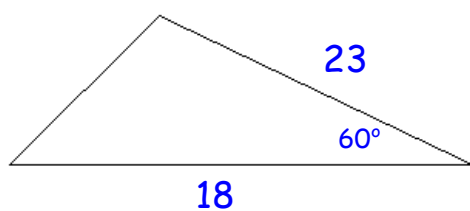
SAS

$$K = \frac{1}{2} 23 \cdot 18 \sin 30$$

$$K = 103.5$$

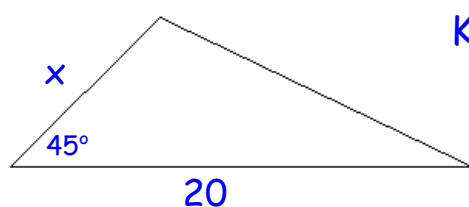
Jan 5 - 6:45 AM

2)



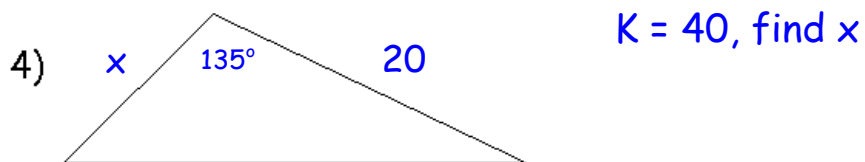
Jan 5 - 6:45 AM

3)

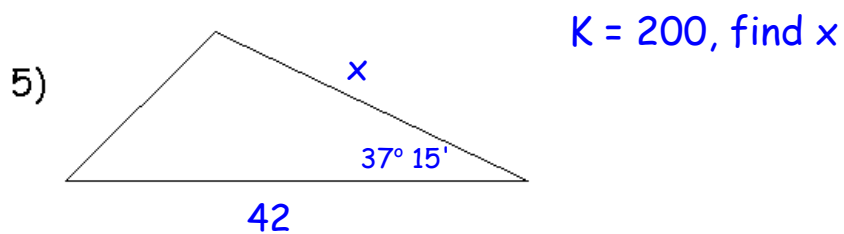
 x  $K = 40$, find x

$$\begin{aligned}K &= \frac{1}{2} ab \sin C \\40 &= \frac{1}{2} 20 x \sin 45 \\4 &= x \sin 45 \\x &= 5.7\end{aligned}$$

Jan 5 - 6:45 AM



Jan 5 - 6:45 AM

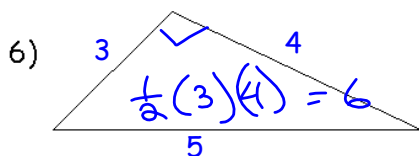


Jan 5 - 6:46 AM

Hero's Formula

$$K = \sqrt{s \cdot (s-a)(s-b)(s-c)}$$

$$s = \frac{a+b+c}{2} \text{ (semi perimeter)}$$



$$s = \frac{3+4+5}{2} = 6$$

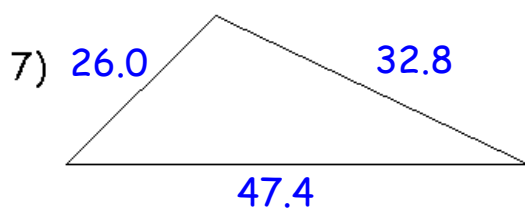
$$K = \sqrt{6(6-3)(6-4)(6-5)}$$

$$K = \sqrt{6 \cdot 3 \cdot 2 \cdot 1}$$

$$K = \sqrt{36}$$

$$K = 6$$

Jan 5 - 6:46 AM



$$s = \frac{26 + 32.8 + 47.4}{2} = 53.1$$

$$K = \sqrt{53.1(27.1)(30.3)(5.7)}$$

$$K = 408.1$$

Jan 5 - 6:46 AM

Tonight's HW: Worksheet #10.1

Jan 28-9:49 AM