

Warm - Up

Solve the following triangles (find all sides/angles):

1) $A = 40^\circ$, $B = 30^\circ$, and $b = 10$

2) $A = 33^\circ$, $B = 70^\circ$, and $b = 7$

3) $C = 103^\circ$, $b = 46$, and $c = 61$

4) $B = 70^\circ$, $b = 14$, and $c = 9$

SWBAT derive the formula for area from the law of sines

SWBAT find the area of a triangle using the law of sines

Agenda:

[HW - Worksheet](#)

Warm - Up

HW Qs

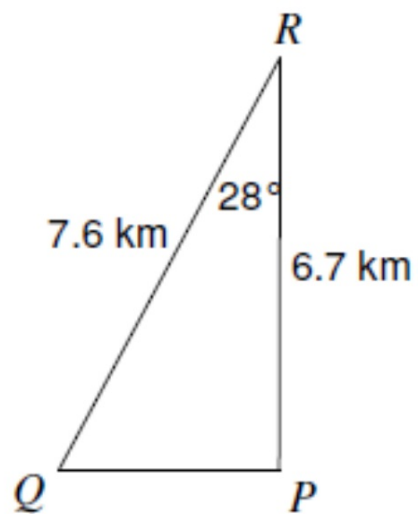
Derive area formula

Example problems

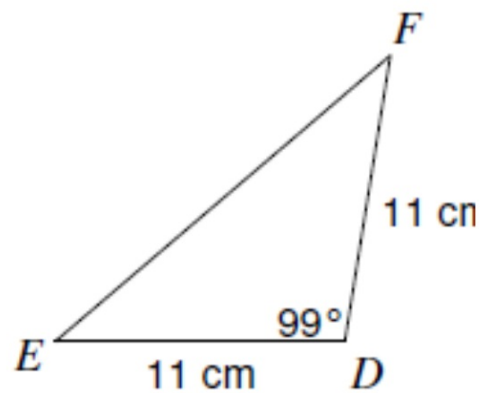
Exit Card

How to get the area of a triangle from the law of sines?

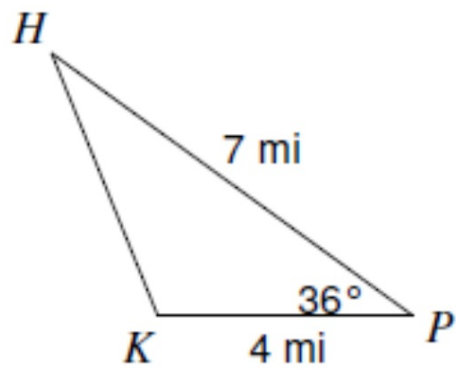
Example 1 - Find the area



Example 2 - Find the area



Example 3 - Find the area



Exit Card

Find the area:

