Panel 1 (top-left):

Find the area of this triangle. Round to the nearest tenth where necessary.

62 cm

50 cm

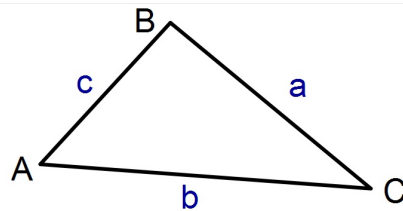107° 73°

h

62 h

$73°$

$\sin 73° = \dfrac{h}{62}$

$h = 59.3$

$A = \dfrac{1}{2}(50)(59.3)$

$= 1482.5 \text{ cm}^2$

Panel 2 (top-right):
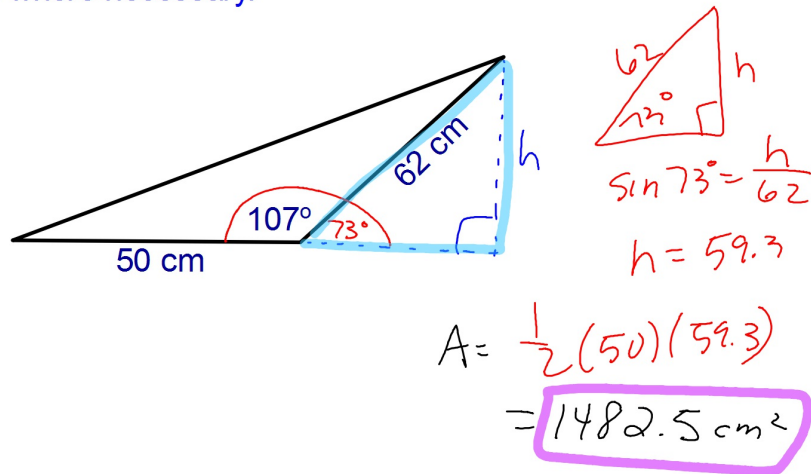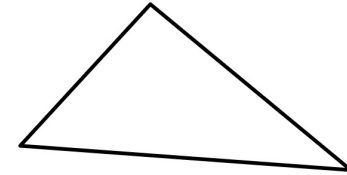
In Triangle ABC:

Angles are labeled with Capital Letters:

A B C

Sides are labeled with lower case letters:

a b c

Panel 3 (bottom-left):

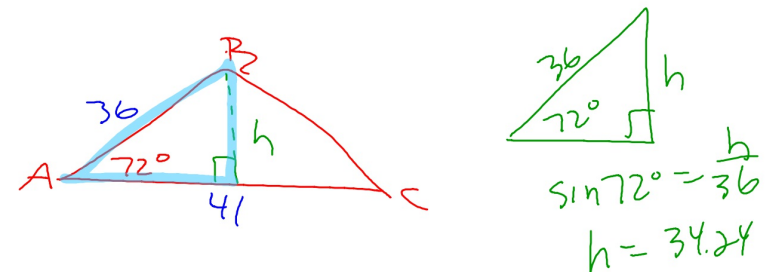In Triangle ABC:

B

c   a

A   b   C

It doesn't matter where A, B, and C are placed as long as.....

side a is opposite ∠A

side b is opposite ∠B

side c is opposite ∠C

Panel 4 (bottom-right):

Find the area of $\triangle ABC$ where $\angle A = 72°$, $b = 41$, and $c = 36$

B

36   h

A   72°   C

41

36   h

72°

$\sin 72° = \dfrac{h}{36}$

$h = 34.24$

$A = \dfrac{1}{2}(41)(34.24) = 701.92$

Find the area of $\triangle ABC$ where $\angle B = 24°$, $a = 28$, and $c = 15$
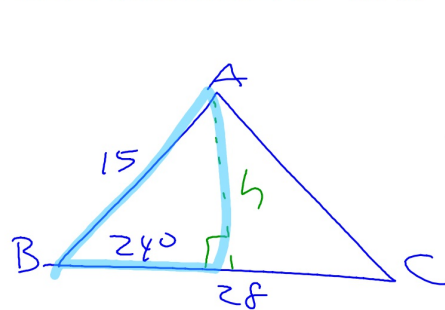
$\sin 24° = \dfrac{h}{15}$

$h = 6.10$

$A = \dfrac{1}{2}(28)(6.10)$

$= 85.40$