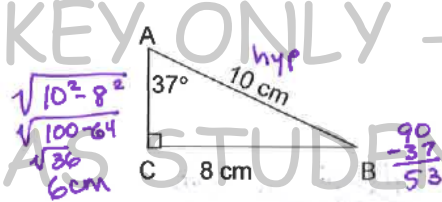**Key HW3W worksheets Geo C8**

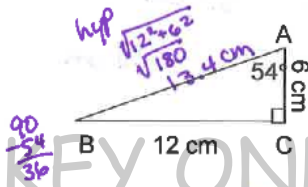**HW3W 1 Label Sides of a Triangle**   Name: _C. Jones_

Find all missing sides and angles of the triangle given. Write numerical answers in each blank. Angle C is always the right angle. Round to the nearest tenth if needed.
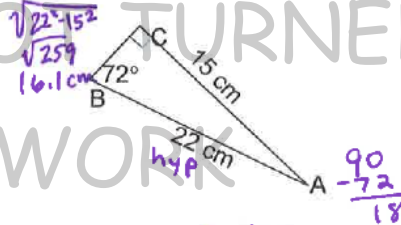
1.

$\sqrt{10^2-8^2}$
$\sqrt{100-64}$
$\sqrt{36}$
6cm

hyp
37° 10 cm

C 8 cm B $\frac{90}{-37}{53}$

a. ∠C = __90°__

b. ∠B = __53°__

c. Side Opposite ∠A = __8 cm__

d. Side Adjacent to ∠A = __6cm__

e. Side Opposite ∠B = __6cm__

f. Side Adjacent to ∠B = __8cm__

g. Hypotenuse = __10cm__

3.

$\sqrt{22^2-15^2}$
$\sqrt{259}$
16.1cm

72° 15 cm
B
22 cm hyp

A $\frac{90}{-72}{18}$

a. ∠C = __90°__

b. ∠B = __72°__

c. Side Opposite ∠A = __16.1cm__

d. Hypotenuse = __22cm__

e. Side Opposite ∠B = __15cm__

f. Side Adjacent to ∠B = __16.1cm__

g. Side Adjacent to ∠A = __15cm__

2.

hyp $\sqrt{12^2+6^2}$
$\sqrt{180}$
13.4 cm
A
54° 6 cm

$\frac{90}{-54}{36}$ B 12 cm C

a. ∠C = __90°__

b. ∠B = __36°__

c. Side Adjacent to ∠B = __12cm__

d. Side Opposite ∠B = __6 cm__

e. Side Adjacent to ∠A = __6cm__

f. Side Opposite ∠A = __12cm__

g. Hypotenuse = __13.4cm__

4.

$\sqrt{42^2-35^2}$
$\sqrt{539}$
23.2cm
C 35 cm

81° 42 cm A
B hyp

$\frac{90}{-81}{9}$

a. ∠C = __90°__

b. ∠B = __81°__
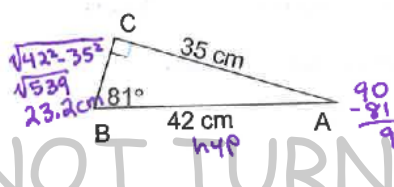
c. Side Opposite ∠A = __23.2cm__

d. Side Opposite ∠B = __35cm__

e. Side Adjacent to ∠A = __35cm__

f. Side Adjacent to ∠B = __23.2cm__

g. Hypotenuse = __42cm__

Key HW3W worksheets Geo C8

Name: _____

Find all missing sides and angles of the triangle given. Write numerical answers in each blank. Angle C is always the right angle. Round to the nearest tenth if needed.

5.

$\frac{90}{-37}{53}$

A

hyp

33 cm

8 cm

37°

C $\sqrt{33^2 - 8^2}$ B

$\sqrt{1025} \approx 32.0 \text{ cm}$

a. ∠C = __90°__

b. ∠B = __37°__

c. Side Opposite ∠A = __32.0 cm__

d. Side Opposite ∠B = __8 cm__

e. Side Adjacent to ∠B = __32.0 cm__

f. Side Adjacent to ∠A = __8 cm__

g. Hypotenuse = __33 cm__

6.

$\frac{90}{-24}{66}$

hyp

$\sqrt{7.2^2 + 3.5^2}$

$\sqrt{64.09} \approx 8.0 \text{ cm}$

A 3.5 cm

24°

B   7.2 cm   C

a. ∠C = __90°__

b. ∠B = __24°__

c. Side Opposite ∠B = __3.5 cm__

d. Side Opposite ∠A = __7.2 cm__

e. Side Adjacent to ∠A = __3.5 cm__

f. Hypotenuse = __8.0 cm__

g. Side Adjacent to ∠B = __7.2 cm__