

Name:

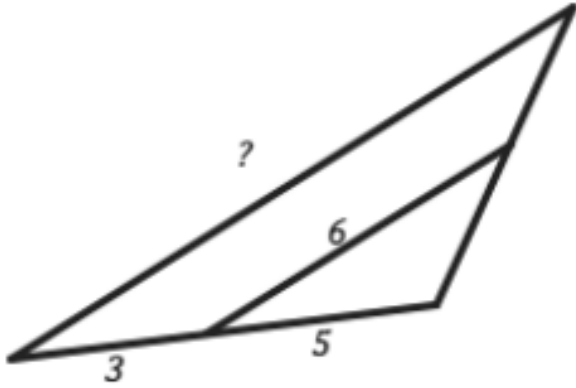
#:

/10

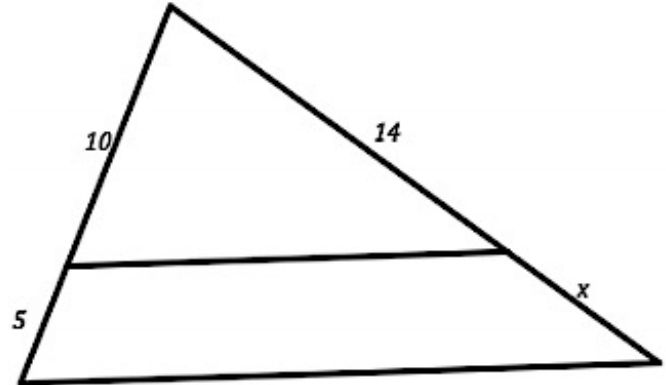
HOMEWORK 6.8

SECONDARY MATH II

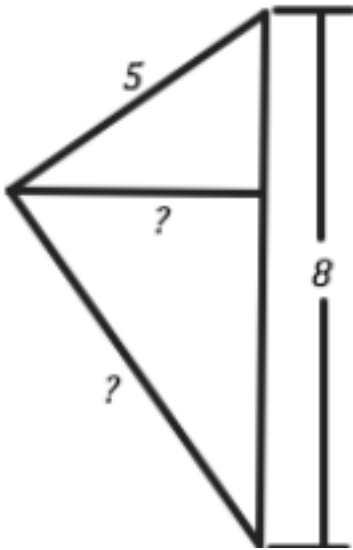
1. Find the missing side length.



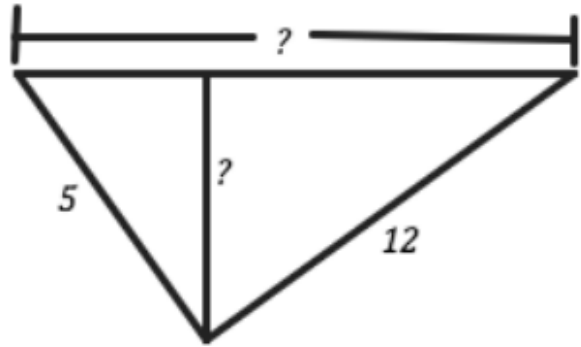
2. Find the missing side length



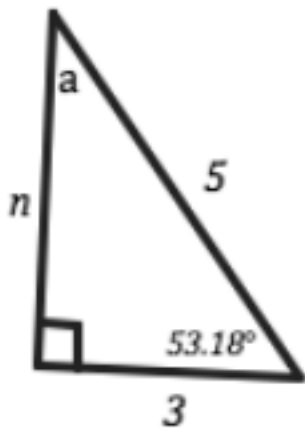
3. Find the missing side length of the right triangle with altitude.



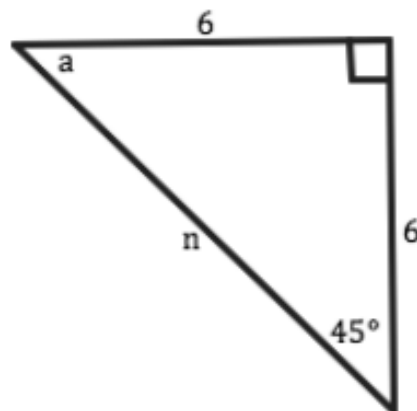
4. Find the missing side length of the right triangle with altitude.



5. Find the missing side n and the missing angle a .

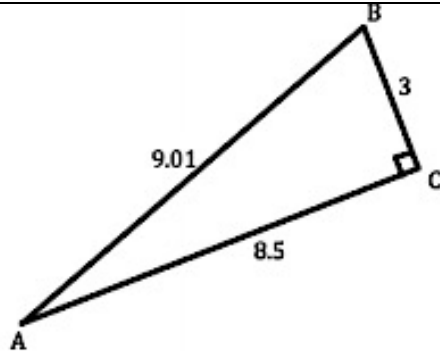


6. Find the missing side n and the missing angle a .



For each right triangle and the identified angle of reference create the desired trigonometric ratios. If any sides of the triangle are missing, find them before determining the ratio.

7.



a. $\cos (A)=$

d. $\cos (B)=$

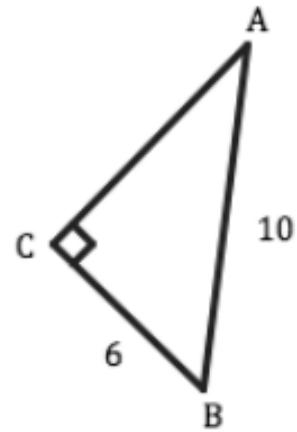
b. $\sin (A)=$

e. $\sin (B)=$

c. $\tan (A)=$

f. $\tan (B)=$

8.



a. $\cos (A)=$

d. $\cos (B)=$

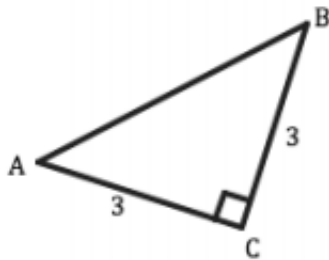
b. $\sin (A)=$

e. $\sin (B)=$

c. $\tan (A)=$

f. $\tan (B)=$

9.



a. $\cos (A)=$

d. $\cos (B)=$

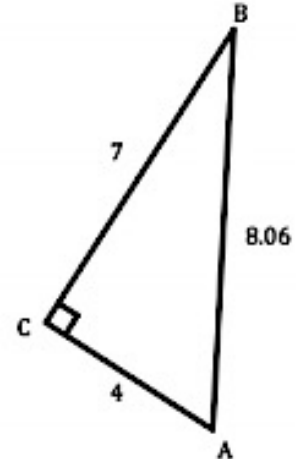
b. $\sin (A)=$

e. $\sin (B)=$

c. $\tan (A)=$

f. $\tan (B)=$

10



a. $\cos (A)=$

d. $\cos (B)=$

b. $\sin (A)=$

e. $\sin (B)=$

c. $\tan (A)=$

f. $\tan (B)=$

Answers:

1. $\frac{6}{5} = \frac{x}{8}, x = 9.6$

3. $\sqrt{39} \approx 6.24, \frac{5\sqrt{39}}{8} \approx 3.9$

4.13, 4.62

6. $n = 6\sqrt{2} \approx 8.49, a = 45^\circ$

7. a) $\frac{8.5}{9.01}, b) \frac{3}{9.01}, d) \frac{3}{9.01}$

8. $AC = 8, a) \frac{4}{5}, c) \frac{3}{4}, f) \frac{4}{3}$

