Warm-up

1) A = 110°, b = 32 and c = 38. Find a.

$a^2 = 32^2 + 38^2 - 2(32)38\cos 110$ **57.4**

$a = \sqrt{Ans}$

2) a = 15, b = 18 and c = 22. Find B.

$18^2 = 15^2 + 22^2 - 2(15)22\cos B$ **54°**

$\cos^{-1}\left(\frac{18^2 - 15^2 - 22^2}{-2(15)22}\right)$

3) A = 65°, B = 47° and b = 14. Find a.

$\frac{a}{\sin 65} = \frac{14}{\sin 47}$ **17.3**

Warm-up

Greg has 8 coins in his pocket; 5 dimes, 2 quarters and a nickel.

1) How many ways could he arrange the coins in a row?

$$\frac{8!}{5!2!}$$

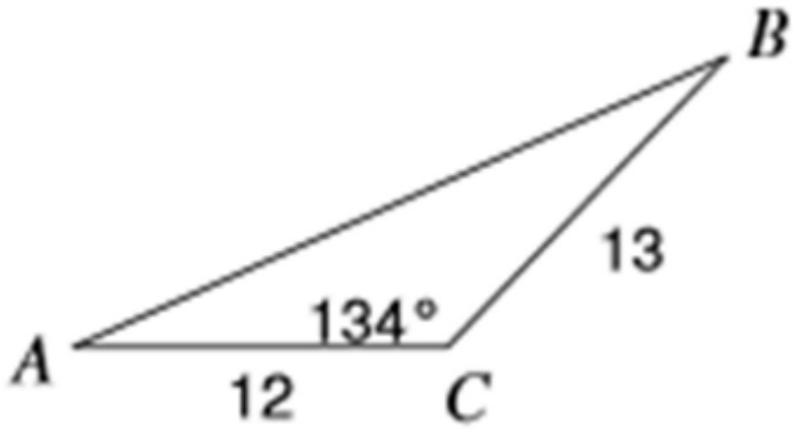
168

2) What is the probability that he picks a dime, then a quarter, then a dime (without replacing)?

$$\frac{5}{8} \cdot \frac{2}{7} \cdot \frac{4}{6}$$

$$\frac{5}{42}$$

1)

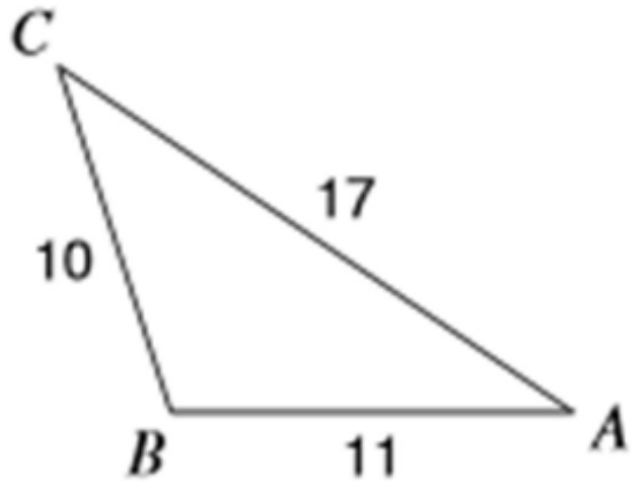


A = 24° a = 13

B = 22° b = 12

C = 134° c = 23.0

2)

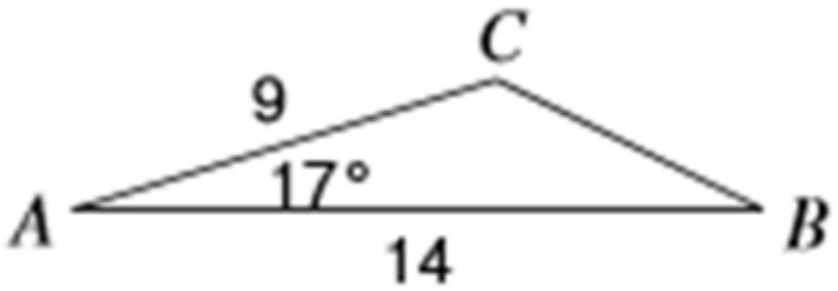


A = 34° a = 10

B = 108° b = 17

C = 38° c = 11

3)

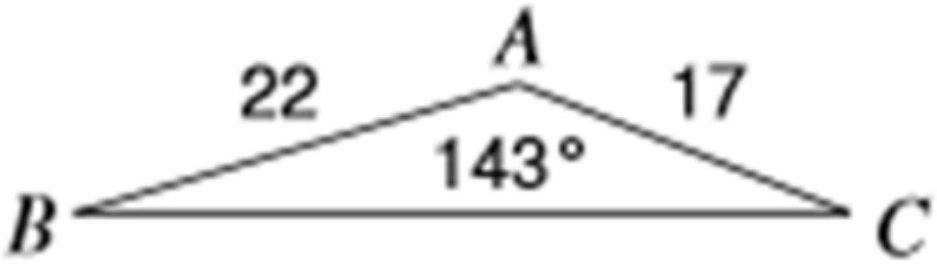


A = 17° a = 6.0

B = 26° b = 9

C = 137° c = 14

4)

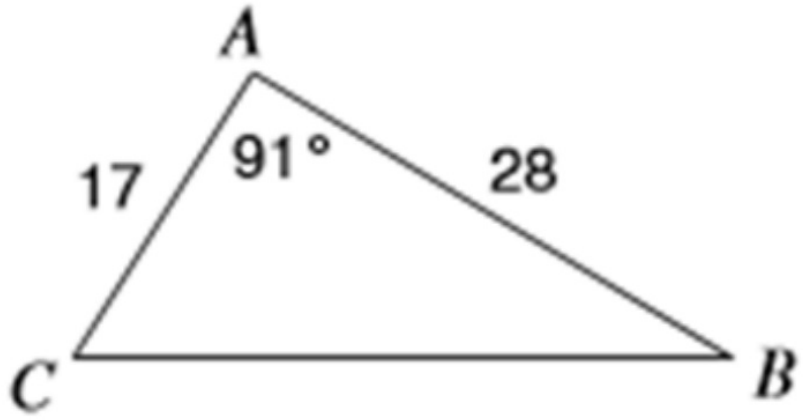


A = 143° a = 37.0

B = 16° b = 17

C = 21° c = 22

5)

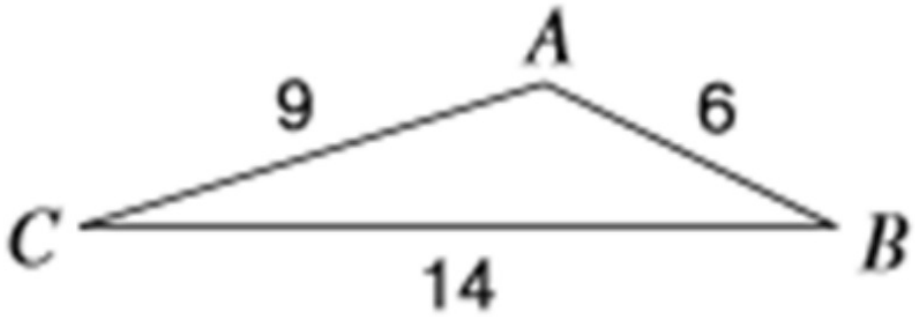


A = 91° a = 33.0

B = 31° b = 17

C = 58° c = 28

6)



A = 137° a = 14

B = 26° b = 9

C = 17° c = 6

U3: Trig. Part I

Mixed Laws

Law of Sine
Law of Cosine

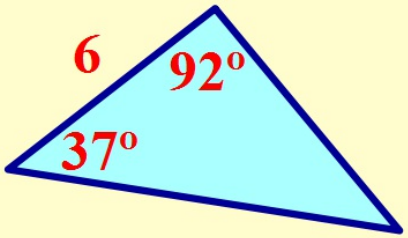
There are 4 types of questions that we have covered.

And these cover 2/3 of Unit 3's topics.

(and tomorrow's quiz)

1) 2 Angles

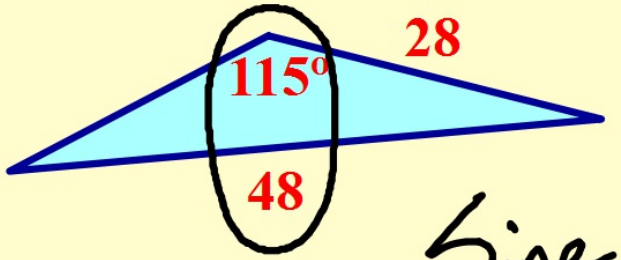
A, B and c



Sine

2) 1 Angle w/ Match

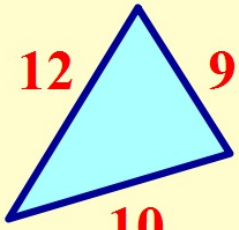
A, a and b



Sine

3) 3 Sides

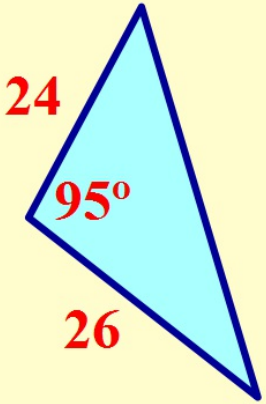
a, b and c



Cosine

4) 1 Angle w/o Match

A, b and c



Cosine

WB 303

#1-16s

All for E.C.