

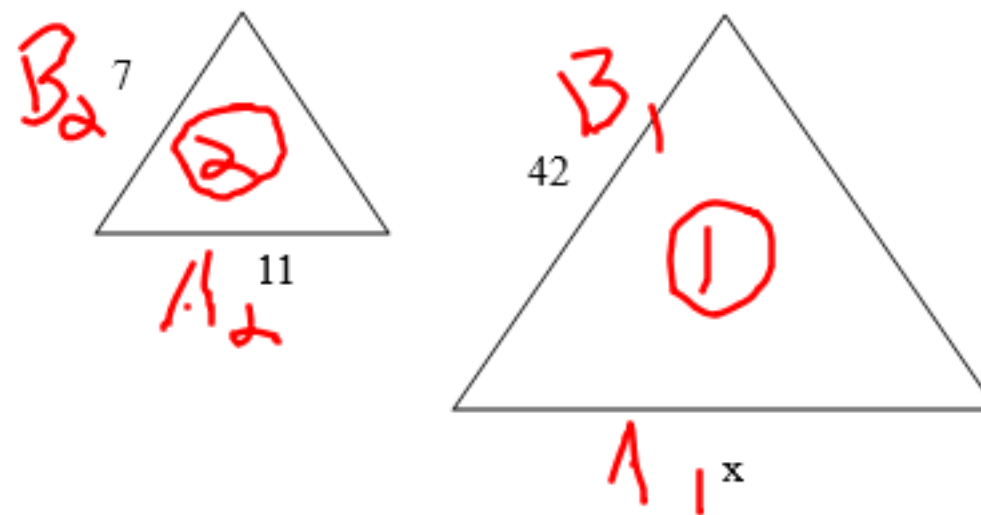
Trigonometry

(Similar Triangles)

Trigonometry Notes

Name _____

Similar Triangles



Are these triangles similar?
How can you tell?

Yes. One is smaller or bigger than the other.

Solve for x

Put your unknown on the

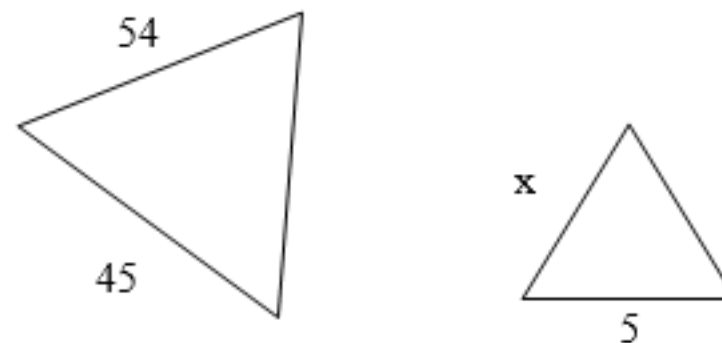
top left side

The get it alone using

1) cross multiplying
2) Inverse operation

Finally, solve for the unknown

Let's try another one! Solve for x



Pythagorean Theorem

2)

$$\frac{x}{11} = \left(\frac{42}{7}\right)''$$

$$x = (6)(11)$$

$$x = 66$$

$$\frac{A_1}{A_2} = \frac{B_1}{B_2}$$

$$\frac{x}{11} = \frac{42}{7}$$

$$7x = 462$$

$$x = 66$$

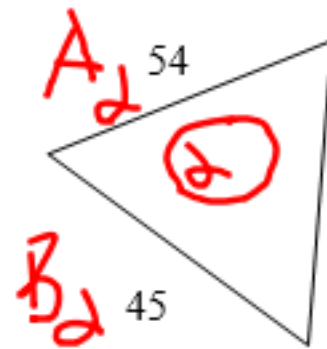
Solve for x

Put your unknown on the _____

The get it alone using _____

Finally, solve for the unknown

Let's try another one! Solve for x



$$\frac{A_1}{A_2} = \frac{B_1}{B_2}$$

$$\frac{x}{54} = \frac{5}{45}$$

$$\frac{270}{45} = \frac{45x}{45}$$

$$6 = x$$

Pythagorean Theorem

Used on _____ triangles.

_____ + _____ = _____

Your hypotenuse is always _____

Remember - Triangle angles always add up to _____ degrees.

Solve for c

Solve for e

54

$$\left(\frac{x}{54}\right) = \left(\frac{5}{45}\right) 54$$

$$x = 6$$