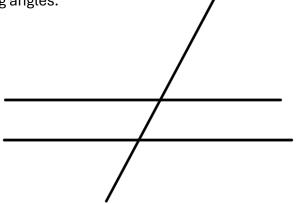
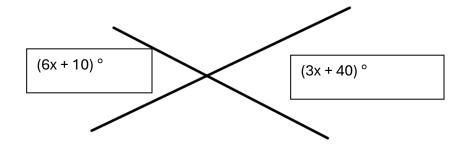
## Trigonometry Exam 1- Test Prep

Degrees, Minutes, and Seconds
Convert 7.237 $^{\circ}$ into DMS. Round to the nearest second
Convert 34.579 ° into DMS. Round to the nearest second. (Do This one by hand!)
Convert 8 $^{\circ}$ 29' 5" into a decimal. Round to the nearest thousandth.
Convert 10 $^{\circ}$ 30' 2" into a decimal. Round to the nearest thousandth. (Do this one by hand)
Angle Relationships
What is the least positive coterminal angle of 750 $^{\circ} ?$
What is the least positive Coterminal angle of -1080?

One angle has a measure of  $47^{\circ}.$  Find all other missing angles.

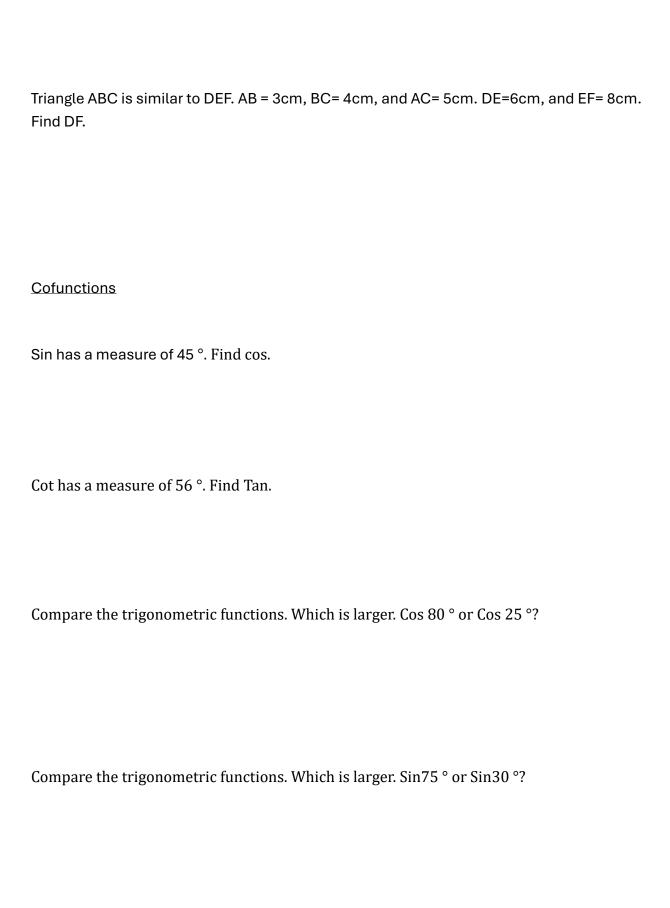


Find the Measure of each angle



Similar and Congruent Triangles:

Two Triangles are congruent. One has a length of 7cm, 9cm, and 12cm. What are the side lengths of the other triangle.



## Pythagorean Theorem

Triangle ABC has side A= 5cm, and B= 6cm. What is the length of side C? Round to the nearest tenth. Use the formula  $r=\sqrt{x^2+y^2}$ 

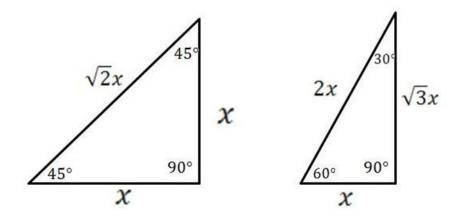
Triangle PQR has P=3cm, and R=7cm. Find the missing side using the formula  $sin^2 + cos^2 = 1$ .

Distance formula

$$D = \sqrt{(x^2 - x^1)^2 + (y^2 - Y^1)^2}$$

Find the distance between (4,7) and (8,3)

Special Right Triangle:



There is a  $30^{\circ}$ - $60^{\circ}$ - $90^{\circ}$  Triangle. X = 5. Find the other sides of the triangle.

There is a  $45^{\circ}$ - $45^{\circ}$ - $90^{\circ}$  Triangle  $X\sqrt{2}$  = 9. Find the other sides of the triangle.

## <u>6 Trig Functions + Reference Angles</u>

	Sin	Cos	Tan	Csc	Sec	Cot
30°						
45 °						
60°						

What the value of the Reference angles of the three major trig functions at 225  $^{\circ}$  and then write their value.

Find the reference angles for the three major trig functions at 150  $^{\circ}$  and then write their value.

Find the reference angles for the three major trig functions at 300  $^{\circ}$  and then write their value.

Triangle ABC has <A=30 °, and side a=8.967cm and find side b.

