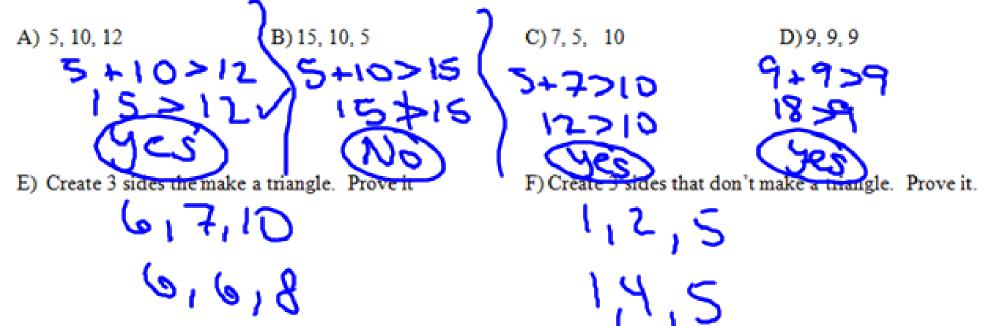
Do the 3 sides below create a triangle? Use what you learned on the front side to say Yes or No. SHOW work to prove your answer.



## Part 3

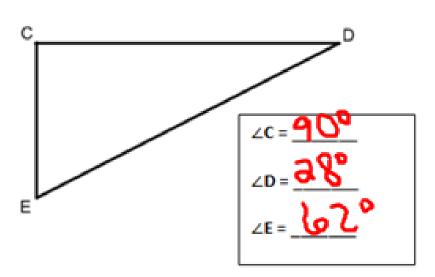
On this side, you will be drawing angles and deciding if the form a triangle or not.

- 1) Draw an angle with the given measure below.
- A) 55°

B) 100°

2) Measure the angles in the triangle below.

A)



B) \( \times \frac{2x = 65}{2} \) \( \times \frac{2x = 45}{2} \)

For each of the triangles above, find the sum of the 3 angles that form the triangle (angle sum).

$$\triangle CDE$$
 Angle Sum =  $\frac{180^{\circ}}{}$ 

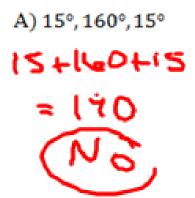
 $\triangle XYZ$  Angle Sum =  $\frac{1}{2}$ 

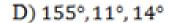
iko.

The three angles that make up every triangle always add up to \_\_\_\_\_ deg

3) T	1) C 2) E	ine segment below as one of the sides of a triangle. Treate the given 2 angles on each end of the triangle extend those lines until they meet to form a triangle Measure the 3 <sup>rd</sup> angle	
	A)	Angle A: 40°	
		Angle B: 40°	
		Angle C°	
F	3)	Angle A: 35°	
		Angle B: 70°	
		Angle C:°	

4) Using the information above, tell whether the angle measures can be those of a triangle. Show work to prove why the angles would or wouldn't make a triangle.







B) 22°, 92°, 66° 22+92+66 = 180°

E) 39°, 68°, 73°



C) 102°, 12°, 65°
102+12+65
~179°
No

F) 96°, 44°, 41°

