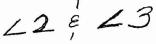
Master &

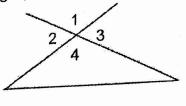
Day Ol~Interior and Exterior Angles

1. Which of the numbered angle(s) in the diagram are interior angle(s)?

4

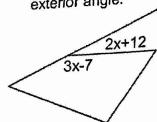
2. Which angle(s) are exterior angle(s)?





3. Write & solve an equation to find the value of x, then find the exact degree measure of the

exterior angle.



$$3x-7+2x+12 = 180^{\circ}$$

 $5X+5 = 180^{\circ}$
 $5X = 175^{\circ}$

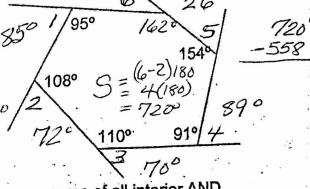
$$\chi = 35$$

$$\mathcal{E}_{y}t2 = 2x+12$$

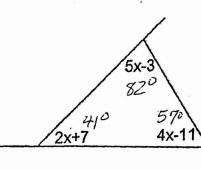
= $2(35)+12$
= $70+12$
= 82

- 4. Label each exterior angle in the diagram, and find its degree measure.
- 5. What is the sum of the measures of the exterior angles?

What is the sum of the measures of the extendrangles
$$85^{\circ} + 72^{\circ} + 70^{\circ} + 89^{\circ} + 26^{\circ} + 18 = 360^{\circ}$$



6. Write & solve an equation to find the value of x, then find the measures of all interior AND exterior angles.



$$5x-3+2x+7+4x-11=180^{\circ}$$

 $11x-7=186$

$$11x - 7 = 180$$

$$5(17)-3=$$
 $85-3=82$
 $2(17)+7=$

$$2(17)+7 = 41^{\circ}$$

$$34+7 = 41^{\circ}$$

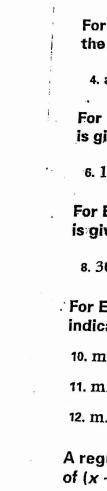
$$4(17)-11 = 57^{\circ}$$

7. What is the sum of the measures of the interior angles in a regular dodecagon? (12-2)180° = 1800°

8. What is the measure of each interior angle?

9. What is the measure of each exterior angle?

10. What is the sum of the exterior angles?



13.

14x - 30 = 180 $14x = 210^{\circ}$ x = 15

