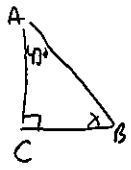


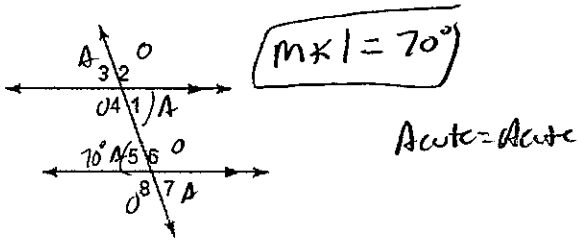
Name Key
Mrs. Roubos

Date _____
8R Period _____

Classwork Day 1 & Day 2

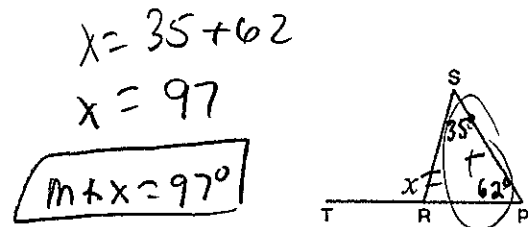
<p>1. Write 68,700,000 in scientific notation.</p> <p>6.87×10^7</p> <p>Calc: 2^{nd} (DRG) \Rightarrow SCI \Rightarrow</p> <p>**Steps:</p>	<p>2. In scientific notation, what is the sum of: 3.4×10^{-8} and 7.6×10^{-9}?</p> <p>$(3.4 \times 10^{-8}) + (7.6 \times 10^{-9}) = 4.16 \times 10^{-8}$</p> <p>**Steps: Sum = Add. Must use parentheses when writing + plugging in to Calc. 2^{nd} (DRG) \Rightarrow SCI \Rightarrow</p>
<p>3. Write 5.557×10^3 in standard form.</p> <p>pos = move right</p> <p>5.557000000 $5,557,000,000$</p> <p>**Steps: Move the decimal point to the right when the exponent is positive + add 0's where needed. 2^{nd} (DRG) \Rightarrow FLO \Rightarrow</p>	<p>4. Write 4.4×10^{-3} in standard form.</p> <p>neg = move left</p> <p>0.0044 2^{nd} (DRG) \Rightarrow FLO \Rightarrow</p> <p>**Steps: Move the decimal point to the left when the exponent is negative + add 0's where needed</p>
<p>5. Evaluate: $\frac{6^7}{6^1} = 6^{7-1} = 6^6$</p> <p>* Remember to add a 1 in for the exponent if there isn't one there</p> <p>**Steps: Keep the base the same and subtract the exponents</p>	<p>6. Evaluate: $5^{10} \cdot 5^1 \cdot 5^{-4}$</p> <p>$5^{10+1+(-4)} = 5^7$</p> <p>* Remember to add a 1 in for the exponent if there isn't one there.</p> <p>**Steps: Keep the base the same and add the exponents.</p>
<p>7. Express 0.00000035 in scientific notation</p> <p>3.5×10^{-7}</p> <p>Calc: 2^{nd} (DRG) \Rightarrow SCI \Rightarrow</p> <p>**Steps:</p>	<p>8. In $\triangle ABC$, the measure of $\angle A$ is 43° and the measure of $\angle C$ is 90°. What is the measure of $\angle B$?</p> <p>$43 + 90 + x = 180$ $133 + x = 180$ $-133 \quad -133$ $x = 47$</p> <p>$m\angle B = 47^\circ$</p>  <p>**Steps: Add the 2 angles plus x and set them equal to 180 and solve</p>

9. In the figure below, what is $m\angle 1$ if $m\angle 5 = 70^\circ$?



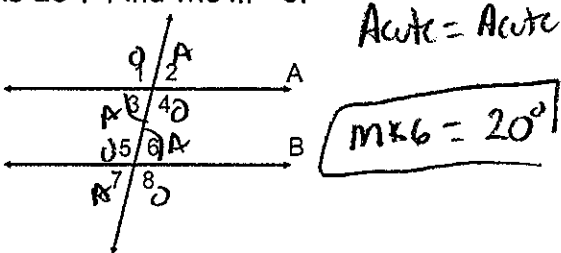
**Steps: alternate interior angles are equal in measure

10. What is the value of x in the diagram shown?



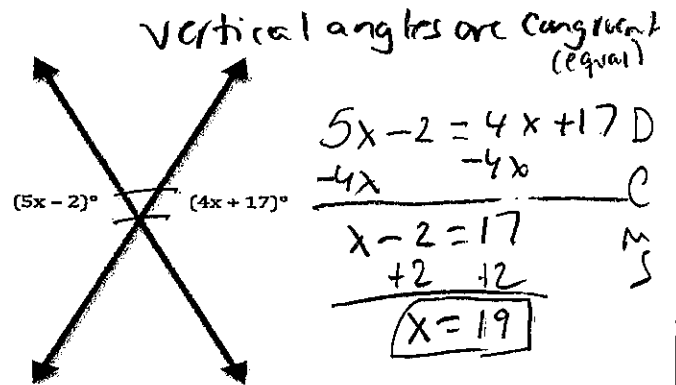
**Steps: Add the two interior angles together to get the measure of the exterior angle, x

11. Lines A and B are parallel lines. The $m\angle 3$ is 20° . Find the $m\angle 6$.



**Steps: Alternate interior angles are equal in measure

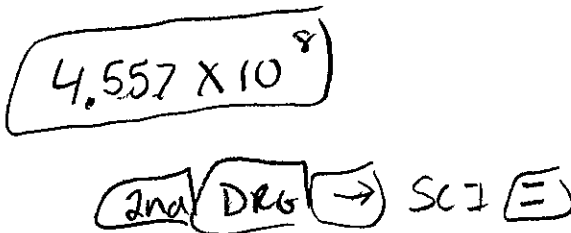
12. What is the value of x in the diagram shown?



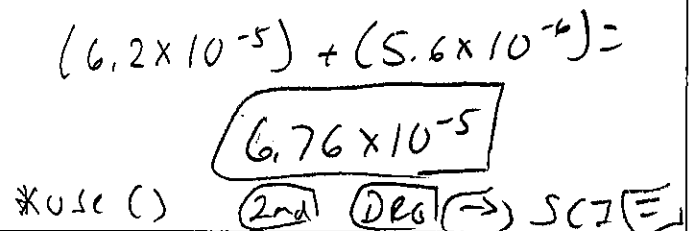
**Steps: Set the angles = to each other + solve for x using DCM

Now you try!!!

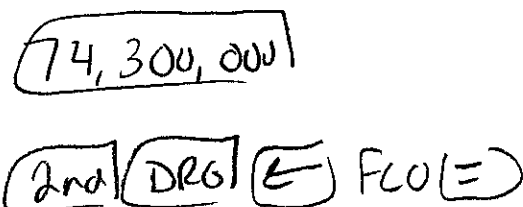
13. Write 455,700,000 in scientific notation.



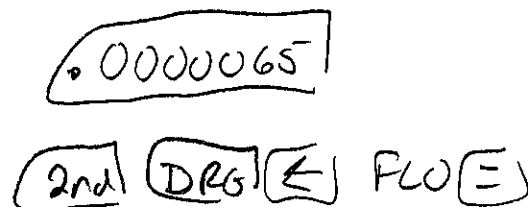
14. In scientific notation, what is the sum of: 6.2×10^{-5} and 5.6×10^{-6} ?



15. Write 7.43×10^7 in standard form.



16. Write 6.5×10^{-6} in standard form.



17. Evaluate: $\frac{9^3}{9^1} = 9^{3-1} = 9^2$

* Add in the 1
* Keep the base, and subtract the exponents

18. Evaluate: $3^{12} \cdot 3^1 \cdot 3^{-6} = 3^{12+1+(-6)} = 3^7$

* Add in the 1
* Keep the base and add the exponents.

19. Express 0.0000028 in scientific notation

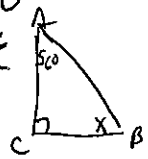
2.8×10^{-6}

2nd DRG \Rightarrow SCI \Rightarrow

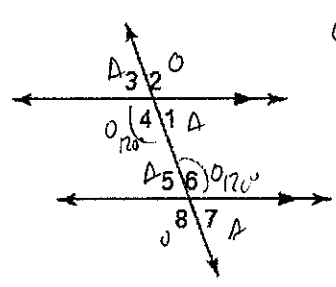
20. In $\triangle ABC$, the measure of $\angle A$ is 56° and the measure of $\angle C$ is 90° . What is the measure of $\angle B$?

$56 + 90 + x = 180$
 $146 + x = 180$
 $-146 \quad -146$
 $x = 34$
 $m\angle B = 34^\circ$

* Add the 2 angles plus x together + set to = to 180

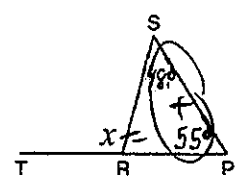


21. In the figure below, the $m\angle 4 = 120^\circ$. Find the $m\angle 6$.



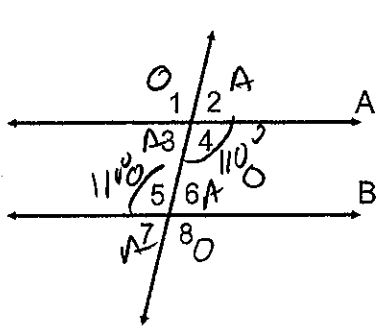
obtuse = obtuse
 $m\angle 6 = 120^\circ$

22. What is the value of x in the diagram shown?



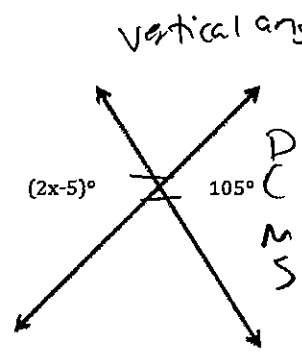
$x = 55 + 48$
 $x = 103$
 $m\angle x = 103^\circ$

23. Lines A and B are parallel lines. The $m\angle 4$ is 110° . Find the $m\angle 5$.



obtuse = obtuse
 $m\angle 5 = 110^\circ$

24. Solve for x:



vertical angles are = in measure

$2x - 5 = 105$
 $+5 \quad +5$
 $2x = 110$
 $\frac{2x}{2} = \frac{110}{2}$
 $x = 55$

1000

1000

1000

1000

1000

1000

1000

1000

1000