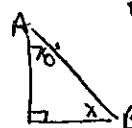
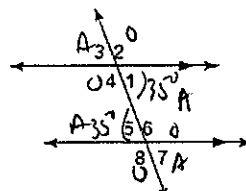
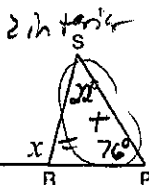
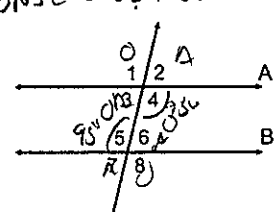
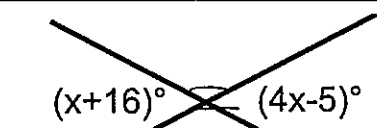


Name Key  
Mrs. Roubos

Date \_\_\_\_\_  
8R Period \_\_\_\_\_

Homework Day 1 & 2

<p>1. Write 12,600,000 in scientific notation.</p> <p><math>1.26 \times 10^7</math></p> <p>2nd DRG <math>\Rightarrow</math> SCI <math>\Leftarrow</math></p>	<p>2. In scientific notation, what is the sum of: <math>5.3 \times 10^{-7}</math> and <math>4.5 \times 10^{-8}</math>?</p> <p><math>(5.3 \times 10^{-7}) + (4.5 \times 10^{-8}) = 5.75 \times 10^{-7}</math></p> <p><math>\times</math> ( ) 2nd DRG <math>\Rightarrow</math> SCI <math>\Leftarrow</math></p>
<p>3. Write <math>5.663 \times 10^5</math> in standard form.</p> <p>566,300</p> <p>2nd DRG <math>\Leftarrow</math> FLO <math>\Leftarrow</math></p>	<p>4. Write <math>3.6 \times 10^{-4}</math> in standard form.</p> <p>0.00036</p> <p>2nd DRG <math>\Leftarrow</math> FLO <math>\Leftarrow</math></p>
<p>5. Evaluate: <math>\frac{7^6}{7^1} = 7^{6-1} = 7^5</math></p> <p><math>\uparrow</math> add the 1 <math>\times</math> keep base, subtract exponents</p>	<p>6. Evaluate: <math>4^9 \cdot 4^1 \cdot 4^{-3}</math></p> <p><math>\uparrow</math> Add the 1 <math>\times</math> keep base, add the exponents</p> <p><math>= 4^{9+1+(-3)} = 4^7</math></p>
<p>7. Express 0.00000087 in scientific notation</p> <p><math>8.7 \times 10^{-7}</math></p> <p>2nd DRG <math>\Rightarrow</math> SCI <math>\Leftarrow</math></p>	<p>8. In <math>\triangle ABC</math>, the measure of <math>\angle A</math> is <math>78^\circ</math> and the measure of <math>\angle C</math> is <math>90^\circ</math>. What is the measure of <math>\angle B</math>?</p> <p>D <math>78 + 90 + x = 180</math> C <math>168 + x = 180</math> m <math>-168 \quad -168</math> S <math>\frac{\quad}{x=12}</math></p> <p><math>m\angle B = 12^\circ</math></p> <p><math>\times</math> Add the 2 angles and x up to 180 + solve using DM</p> 
<p>9. In the figure below, what is <math>m\angle 5</math> if <math>m\angle 1 = 35^\circ</math>?</p>  <p><math>m\angle 5 = 35^\circ</math></p> <p>Acute - Acute</p>	<p>10. What is the value of x in the diagram shown?</p> <p><math>x = 22 + 76</math> <math>x = 98</math></p> <p><math>m\angle x = 98^\circ</math></p> <p><math>\times</math> Add the 2 interior angles to get the exterior angle x</p> 
<p>11. Lines A and B are parallel lines. The <math>m\angle 4</math> is <math>95^\circ</math>. Find the <math>m\angle 5</math>.</p> <p><math>m\angle 5 = 95^\circ</math></p> <p>Obtuse = obtuse</p>  <p>Alternate interior angles = in measure</p>	<p>12. Solve for x:</p> <p><math>\times</math> vertical angles</p> <p><math>\times</math> set angles = to each other</p>  <p><math>x + 16 = 4x - 5</math></p> <p><math>-x \quad -x</math></p> <p><math>\frac{16 = 3x - 5}{+5 \quad +5}</math></p> <p><math>\frac{21 = 3x}{3 \quad 3}</math></p> <p><math>x = 7</math></p>