

Name \_\_\_\_\_

Mrs. Roubos

Date \_\_\_\_\_

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

## Take home Quiz #5

Due: \_\_\_\_\_

Must show all work to get full credit!

<p>1) Evaluate the following expression when <math>x = 9</math> Show all work!!</p> $-5x^2 + 3x - 11$ <p style="text-align: right;">4</p>	<p>2) Write an equation for the following word problem and then solve it.</p> <p>A taxi company charges \$3.75 plus \$0.45 per mile for each fare. If Larry's fare totaled \$11.40, how many miles did the taxi cab have to drive him?</p> <p style="text-align: right;">4</p>
<p>3) Simplify: <math>15a^4 - (-18a^4)</math></p> <p style="text-align: right;">2</p>	<p>4) Simplify: <math>-7a^2 + 8x + 2x + 19a^2</math></p> <p style="text-align: right;">2</p>
<p>5) Solve for x:</p> $7\left(\frac{5}{7}x - 2\right) = -24$ <p style="text-align: right;">4</p>	<p>6) Solve for x:</p> $\frac{2}{3}x - \frac{1}{4}x = 11$ <p style="text-align: right;">4</p>
<p>7) Find the supplement of a <math>30^\circ</math> angle.</p> <p style="text-align: right;">2</p>	<p>8) Find the complement of a <math>50^\circ</math> angle.</p> <p style="text-align: right;">2</p>

9) Solve for x:  $x^2 = 144$

3

10) Simplify:  $4x - 3(x + 6)$

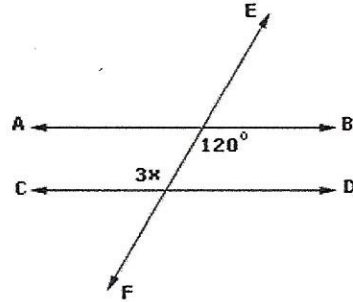
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11) Solve the following and decide if there are one, none or infinitely many solutions.

$$10x + 7 = 2(5x + 1)$$

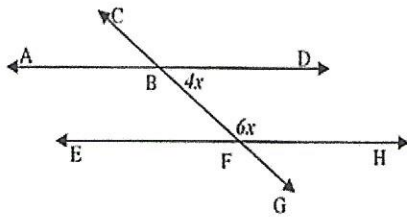
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12) Solve for x:



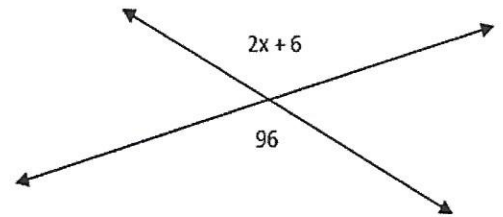
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13) Solve for x:



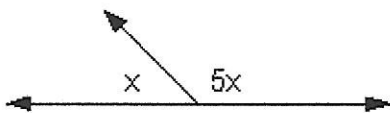
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14) Solve for x:



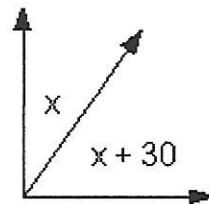
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15) Solve for x:



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16) Solve for x:



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