



Riben

Homework # 1			
<p>1. $5x + 2 = 3(2x - 1)$</p> $\begin{array}{r} 5x + 2 = 3(2x - 1) \\ -6x - 3 \\ \hline -x + 5 = -3 \\ +x + 3 \\ \hline 5 = x \end{array}$	<p><u>Reasoning</u></p> <p>Subtraction Division Multiplication</p>	<p>2. $2x + 9 = \frac{5x}{2}$</p> $\begin{array}{r} 2x + 9 = \frac{5x}{2} \\ -2x + 18 \\ \hline 18 = \frac{3x}{2} \\ \times 2 \\ \hline 36 = 3x \\ \div 3 \\ \hline 12 = x \end{array}$	<p><u>Reasoning</u></p> <p>Multiplication Distributive Subtraction Division</p>
<p>3. $7 - 9x = 5(x + 3) + 2x$</p> $\begin{array}{r} 7 - 9x = 5(x + 3) + 2x \\ 7 - 9x = 5x + 15 + 2x \\ 7 - 9x = 7x + 15 \\ -7x + 7 \\ \hline 7 = 16x + 15 \\ -15 \\ \hline -8 = 16x \\ \div 16 \\ \hline x = -\frac{1}{2} \end{array}$	<p><u>Reasoning</u></p> <p>Subtraction Multiplication Addition</p>	<p>4. $3x + 1 = 7x - 11$</p> $\begin{array}{r} 3x + 1 = 7x - 11 \\ -3x - 1 \\ \hline 14 = 4x \\ \div 4 \\ \hline 3.5 = x \end{array}$	<p><u>Reasoning</u></p>
<p>5. $x + 3(x + 1) = 2x + 7$</p> $\begin{array}{r} x + 3(x + 1) = 2x + 7 \\ x + 3x + 3 = 2x + 7 \\ 4x + 3 = 2x + 7 \\ -2x - 3 \\ \hline 2x = 4 \\ \div 2 \\ \hline x = 2 \end{array}$	<p><u>Reasoning</u></p> <p>Subtraction Addition</p>	<p>6. $5x - 2(3x + 2) = 5(x - 2)$</p> $\begin{array}{r} 5x - 2(3x + 2) = 5(x - 2) \\ 5x - 6x - 4 = 5x - 10 \\ -x - 4 = 5x - 10 \\ +x + 4 \\ \hline 0 = 6x - 6 \\ +6 \\ \hline 6 = 6x \\ \div 6 \\ \hline x = 1 \end{array}$	<p><u>Reasoning</u></p> <p>Multiplication Division</p>
<p>7. Brad is one year less than twice as old as Naomi. Their combined age is 29.</p> $\begin{array}{r} B - 1 = 2N = 29 \\ \div 2 \\ \hline 15 = B \quad N = 14 \end{array}$		<p>8. Jessica bought 12 rose plants and 10 lily plants for her garden. Each rose plant costs \$5 more than each lily plant. She spent a total of \$148. How much does lily cost? Rose?</p> $\begin{array}{r} \text{lily} = 10 \\ \text{Rose} = 15 \end{array}$	

12 10 148