



This sheet being used for

Homework # 1			
1. $5x + 2 = 3(2x - 1)$ $5x + 2 = 6x - 3$ $-1x = -\frac{5}{1}$ $x = 5$	<u>Reasoning</u> Distributive Prop Subtractive POE Addition POE	2 $x + 9 = \frac{5x}{2}$ $x - \frac{5x}{2} = -9 \cdot 2$ $x - 5x = -18$ $-4x = -18$ $x = 4.5$	<u>Reasoning</u> multiplication POE Distributive Prop Division POE X <u>Subtraction</u> POE
3. $7 - 9x = 5(x + 3) + 2x$ $7 - 9x = 5x + 15 + 2x$ $-9x = 7x + 15$ $-16x = 8$ $x = -0.5$	<u>Reasoning</u> Distributive Addition POE Subtraction POE Division POE <u>Simplify</u> x	4. $3x + 1 = 7x - 11$ $-7x + 1 = -7x - 11$ $-10x = -12$ $x = 1.2$ $x = 3$	<u>Reasoning</u> Addition POE Division POE Subtraction POE
5. $x + 3(x + 1) = 2x + 7$ $x + 3x + 3 = 2x + 7$ $4x + 3 = 2x + 7$ $-2x = 4$ $2x = 4$ $x = 2$	<u>Reasoning</u> Distributive Subtraction POE Division POE	6. $5x - 2(3x + 2) = 5(x - 2)$ $5x - 6x - 4 = 5x - 10$ $-x - 4 = 5x - 10$ $-6x = -6$ $x = 1$	<u>Reasoning</u> Distributive Division POE Addition POE
7. Brad is one year less than twice as old as Naomi. Their combined age is 29. $2N - 1 + N = 29$ $3N - 1 = 29$ $3N = 30$ $N = 30$ $B = (30 \cdot 2) - 1$ $B = 59$		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? $5L + L = 148$ $6L = 148$ $L = 24.70$ $R = 29.70$ $R = 24.70$	$R = \\$10$ $L = \\$5$

$N = 10$
 $B = 19$

$R = 9$
 $L = 4$