

Friday																							
<p>Solve for x. $3x + 7(x + 1) = 2x - 4$ $3x + 7x + 7 = 2x - 4$ $10x + 7 = 2x - 4$ $-2x - 2x$ $-2x = -11$</p>	$8x + 7 = -4$ $-7 -7$ $8x = -11$ $\frac{-11}{8}$																						
<p>Solve for x. $2x - 3(2 - 3x) = 11x - 6$ $2x - 6 + 9x = 11x - 6$ $11x - 6 = 11x - 6$</p>	<p>all real numbers all \mathbb{R}</p>																						
<p>If $5(3x - 7) = 20$, then what is $6x - 8$? $15x - 35 = 20$ $+35 +35$ $15x = 55$</p>	$x = 3 \frac{2}{3} = \frac{11}{3}$ $6(\frac{11}{3}) - 8$ $22 - 8 = 14$																						
<p>Justify each step with an algebraic property when solving $15 + 4x = 5x - 13$</p> <table border="1"> <tbody> <tr> <td>$15 + 4x = 5x - 13$</td> <td>Subtraction prop. of equality</td> </tr> <tr> <td>$15 - 4x - 4x = 5x - 13 - 4x$</td> <td>additive inverse</td> </tr> <tr> <td>$15 = 1x - 13$</td> <td>additive identity</td> </tr> <tr> <td>$15 = 1x - 13$</td> <td></td> </tr> <tr> <td>$+13 +13$</td> <td>addition prop. of equality</td> </tr> <tr> <td>$2 = x + 0$</td> <td>additive inverse</td> </tr> <tr> <td>$2 = x$</td> <td>additive identity</td> </tr> <tr> <td>$x = 2$</td> <td>symmetric</td> </tr> </tbody> </table>		$15 + 4x = 5x - 13$	Subtraction prop. of equality	$15 - 4x - 4x = 5x - 13 - 4x$	additive inverse	$15 = 1x - 13$	additive identity	$15 = 1x - 13$		$+13 +13$	addition prop. of equality	$2 = x + 0$	additive inverse	$2 = x$	additive identity	$x = 2$	symmetric						
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