

1. Solve this equation. Justify the steps.

$$4x + 7 - x + 3 = 34$$

<u>Steps</u>	<u>Reasons</u>
$4x + 7 - x + 3 = 34$	Given eq
$3x + 10 = 34$	Comb. like terms
$3x + 10 - 10 = 34 - 10$	Subtr. prop =
$3x = 24$	Simplify
$3x \div 3 = 24 \div 3$	div prop =
$x = 8$	simplify

2. Solve this equation. Justify the steps.

$$5 - 4(2x - 3) = -15$$

<u>Steps</u>	<u>Reasons</u>
$5 - 4(2x - 3) = -15$	Given eq
$5 - 8x + 12 = -15$	DISTRIB Prop
$5 - 8x + 12 - 5 = -15 - 5$	SUBTR Prop =
$-8x + 12 = -20$	Simplify
$-8x + 12 - 12 = -20 - 12$	SUBTR prop =
$-8x = -32$	Simplify
$-8x / -8 = -32 / -8$	Div prop =
$x = 4$	Simplify