

1.5 Justifying Equations and Literal Equations

Solve each equation. Show all steps and justify only using properties of equality and distributive property.

1. $x - 3 = 12$ justification

--	--

2. $20 = 15x - 10$ justification

--	--

3. $\frac{1}{6}x + 5 = 9$ justification

--	--

4. $4x + 12 = 56$ justification

--	--

5. $2(x - 5) = 20$ justification

--	--

6. $5x + 6 = -12$ justification

--	--

7. $6 - 9x = -75$ justification

8. $\frac{x}{8} - 5 = -22$ justification

9. $(2x+3)+7=4x+2$ justification

10. $9(x - 2) = 9$ justification

Write an equation for the following statements then solve and justify.

11. Seven more than twice a number is negative 53.