

Linear Functions Review

Solving Equations

Solve each equation. Then check your solution.

1. $5x - 3 = 13 - 3x$

2. $1 - s = 6 - 6s$

3. $\frac{1}{2}k - 3 = 2 - \frac{3}{4}k$

4. $3(-2 - 3x) = -9x - 4$

5. $9(4b - 1) = 2(9b + 3)$

6. $-5x - 10 = 2 - (x + 4)$

7. $\frac{5}{2}t - t = 3 + \frac{3}{2}t$

8. $\frac{2}{3}x - \frac{1}{6} = \frac{1}{2}x + \frac{5}{6}$

9. $\frac{5}{a} = \frac{30}{54}$

10. $\frac{28}{49} = \frac{4}{w}$

11. $\frac{2}{y} = \frac{10}{60}$

12. $\frac{6}{61} = \frac{12}{h}$

13. $\frac{7}{9} = \frac{8}{c}$

14. $\frac{v}{0.23} = \frac{7}{1.61}$

For each word problem, write an equation and solve to answer the question.

15. Tripling the greater of two consecutive even integers gives the same result as subtracting 10 from the lesser even integer. What are the integers?

16. Ysidra paints a room that has 400 square feet of wall space in $2\frac{1}{2}$ hours. At this rate, how long will it take her to paint a room that has 720 feet of wall space?