

Properties of Real Numbers Assignment

Name the property of real numbers used in each equation. Then find the value of x .

1. $0.75 + 0 = x$
2. $0 = 2 + x$
3. $0.52 + 0.15 = 0.52 + x$
4. $(9 + 7) + 5 = 9 + (7 + x)$
5. $21x = 21$
6. $2x = 0$
7. $1 = 13x$
8. $x + 25 = 25 + 10$
9. $(8 \cdot 3) \cdot 9 = x \cdot (3 \cdot 9)$
10. $12 - 3 = x + 12$

Evaluate each expression if $x = 4$, $y = 3$ and $z = 6$. (Name the property used in each step.)

11. $\frac{3}{x}[x \div (7 - x)]$
12. $2(y \cdot 2 - 5) + y \cdot \frac{1}{y}$
13. $z \cdot \frac{1}{z} + 5(2z \div 4 - 3)$
14. $y\frac{y}{7} \cdot 14 \cdot 1\frac{1}{4}$
15. $\frac{1}{x} + 2 + 2\frac{3}{x}$
16. $2x + \frac{3}{5}\left(\frac{1}{2}x + 2y\right) + \frac{2}{y}$
17. $3.2(x + y) + 2.3(x + y) + 4x$
18. $(4x^2 + 6x) + (3y^2 + 8y)$