MANIPULATING EQUATIONS PRACTICE
ANSWERS

Solve each equation for x.

1. $x = \dfrac{a}{b}$

2. $x = \dfrac{b}{a}$

3. $x = \dfrac{b}{a^2}$

4. $x = \sqrt{\dfrac{b}{a}}$

5. $x = 3a - b$

6. $x = \dfrac{2a}{b}$

7. $x = \dfrac{a}{6b}$

8. $x = \sqrt{\dfrac{a}{b}}$

9. $x = \dfrac{a}{bc}$

10. $x = \dfrac{cb}{da}$

11. $x = \dfrac{a-c}{b}$

12. $x = c - d(a - b)$

13. $x = \dfrac{bd}{a-1}$

14. $x = \dfrac{c}{a+b}$

15. $x = \dfrac{ab-7}{3}$

16. $x = \dfrac{a+3}{b+c}$

17. $x = \dfrac{a}{1-bc}$

18. $x = \dfrac{5-4c}{ca-b}$

19. $x = \dfrac{a}{1-10b}$

20. $x = \dfrac{c}{ab} - 1$

21. $x = \sqrt{\dfrac{b-7}{a}}$

22. $x = \dfrac{5}{ab+cb}$ or $\dfrac{5}{b(a+c)}$

23. $x = \sqrt{\dfrac{ab^2}{b}}$ or $b\sqrt{\dfrac{a}{c}}$

24. $(ac + 1)^2$

25. $x = \sqrt{\dfrac{cd+1}{3ab}}$

26. $x = \dfrac{a}{(\pi r^2 + 2\pi)}$

27. $x = \dfrac{cdef}{abg}$

28. $x = \dfrac{a - \frac{1}{2}bc^2}{b}$

29. $x = 4b\left(\dfrac{3c}{d} + a\right)$

30. $x = -\dfrac{2(c-b)-3ab}{3a}$