

MANIPULATING EQUATIONS PRACTICE

Solve each equation for x.

1. $a = bx$

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

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

4. $a = \frac{b}{x^2}$

5. $a = \frac{b+x}{3}$

6. $a = \frac{1}{2}bx$

7. $\frac{a}{2} = 3bx$

8. $a = bx^2$

9. $a = bxc$

10. $\frac{xa}{b} = \frac{c}{d}$

11. $a = bx + c$

12. $a - b = \frac{c-x}{d}$

13. $\frac{a-1}{b} = \frac{d}{x}$

14. $ax + bx = c$

15. $a = \frac{3x+7}{b}$

16. $a + 3 = bx + cx$

17. $a = x - bxc$

18. $ax + 4 = \frac{bx+5}{c}$

19. $\frac{1(x-a)}{2} = 5xb$

20. $ab = \frac{c}{x+1}$

21. $ax^2 + 7 = b$

22. $abx + cbx = 5$

23. $ab = \frac{x^2c}{b}$

24. $ac = \sqrt{x} - 1$

25. $ab = \frac{cd+1}{3x^2}$

26. $x\pi r^2 + 2\pi x = a$

27. $\frac{ab}{cd} = \frac{ef}{xg}$

28. $a = xb + \frac{1}{2}bc^2$

29. $\frac{3c}{d} = \frac{x}{4b} + a$

30. $a = \left(\frac{2}{3}\right)\frac{c-b}{b-x}$