

ALGEBRA – EQUATIONS 3

1. $2(3x + 4) = 26$

2. $4(6 - x) = 7$

3. $3(x + 4) = 2(x - 6)$

4. $3(5x - 9) = 33$

5. $12 = -6(2x - 8)$

6. $4 = 8 + 2(3x + 1)$

7. $2x - 3 = 4(x - 1)$

8. $6 = 2(5x - 4)$

9. $3(2x - 5) - 6(5x - 3) = 0$

10. $0.5(4m - 30) = 7$

11. $2x - 3(x + 4) = 6 + 7x$

12. $3 - (3x + 5) = -4$

13. $0.6(2x - 1.4) = 1.8$

14. $1 - 2(3 - 4x) = 5x + 6$

15. $1 - (1 - x) = 1$

16. $x - (x - 1) = x$

17. $5 - (6 - 3a) = 7 + 11a$

18. $2(x - 3) - (2x + 6) = 4x$

19. $4\left(\frac{1}{2}x - 3\right) = x - 22$

20. $44 - 16x = 25(3 - x)$

ANSWER KEY

1. $x = 3$

6. $x = -1$

11. $x = -\frac{9}{4}$

16. $x = 1$

2. $x = \frac{17}{4}$

7. $x = \frac{1}{2}$

12. $x = \frac{2}{3}$

17. $a = -1$

3. $x = -24$

8. $x = \frac{7}{5}$

13. $x = 2.2$

18. $x = -3$

4. $x = 4$

9. $x = \frac{1}{8}$

14. $x = 3\frac{2}{3}$

19. $x = -10$

5. $x = 3$

10. $m = 11$

15. $x = 1$

20. $x = \frac{31}{9}$

Source: Government of BC used with permission.