- Collect like terms on left and right
- Isolate x and constants either side
- Simplify again
- Divide down the x coefficient

1. $3x + 5 + 2x = x + 8 + 3$ $x = \dfrac{6}{4}$

2. $2x - 4 + 3x = x + 7 - 2$ $x = \dfrac{9}{4}$

3. $5x + 6 - 2x = x + 10 + 4$ $x = \dfrac{8}{2}$

4. $4x - 3 + x = 2x + 5 + 8$ $x = \dfrac{16}{3}$

5. $x + 12 + 2x = -x + 6 + 9$ $x = \dfrac{3}{4}$

6. $6x - 8 - x = 3x + 4 - 3$ $x = \dfrac{9}{2}$

7. $3x + 7 + 4x = 2x - 5 + 12$ $x = \dfrac{0}{5}$

8. $2x - 6 + 5x = 3x + 8 - 4$ $x = \dfrac{10}{4}$

9. $5x + 4 - 3x = x - 2 + 11$ $x = 5$

10. $4x + 9 + 3x = -2x + 15 - 6$ $x = \dfrac{0}{9}$

11. $x - 5 + 6x = 2x + 10 + 7$ $x = \dfrac{22}{5}$

12. $7x + 8 - 2x = 3x - 4 + 16$ $x = \dfrac{4}{2}$

13. $3x - 7 + 2x = -x + 9 + 5$ $x = \dfrac{21}{6}$

14. $6x + 5 + x = 4x - 8 + 18$ $x = \dfrac{5}{3}$

15. $2x + 11 + 4x = x - 3 + 14$ $x = \dfrac{0}{5}$

16. $5x - 9 - x = 2x + 6 - 5$ $x = \dfrac{10}{2}$

17. $4x + 6 + 2x = -3x + 12 + 3$ $x = \dfrac{9}{9}$

18. $x - 8 + 7x = 3x + 5 - 2$ $x = \dfrac{11}{5}$

19. $8x + 4 - 3x = 2x - 6 + 10$ $x = \dfrac{0}{3}$

20. $3x - 12 + 5x = x + 8 + 4$ $x = \dfrac{24}{7}$

Answers shown not reduced