

## **1.8. – REARRANGING FORMULAE**

Solve for x:

$$1. \frac{x}{12} = 5$$

$$8. \frac{2x - 2}{x + 1} = -2$$

$$2. \frac{x}{7} + 2 = 5$$

$$9. \frac{2x}{7} + 1 = \frac{-5x}{7}$$

$$3. \frac{2x}{7} + 2 = 5 - 3x$$

$$10. \frac{2x}{7} + 4 = \frac{3x}{2}$$

$$4. \frac{2x}{7} + \frac{2}{5} = -2x + 1$$

$$11. \frac{2}{x} - 3 = \frac{3}{2x}$$

$$5. \frac{2x - 1}{x} = 3$$

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

$$6. \frac{x + 2}{2x} = 5$$

$$13. \frac{-2}{x} = \frac{3}{x - 2}$$

$$7. \frac{x - 2}{2x - 1} = 6$$

$$14. \frac{4}{x + 1} = \frac{4}{x + 2}$$

$$15. \frac{2}{x+1} = \frac{4}{x+2}$$

$$21. \frac{x}{a} = b$$

$$16. -\frac{2}{2x+1} - 2 = \frac{4}{2x+1}$$

$$22. \frac{a}{x} = b$$

$$17. xa = b$$

$$23. 2x + ax = b$$

$$18. x + a = b$$

$$24. x + ax = b$$

$$19. 2x + a = b$$

$$25. \frac{x}{2} + a = b$$

$$20. 2xa = b$$

$$26. \frac{x}{a+c} = b$$

$$27. \frac{a}{x-c} = b$$

$$33. 1-x = b$$

$$28. \frac{x-d}{a+c} = b$$

$$34. \frac{1}{x} - s = b$$

$$29. \frac{a+2d}{x-c} = b$$

$$35. \frac{1-x}{a} = b$$

$$30. \frac{x}{2} + ax = b$$

$$36. \frac{1-x}{x} = b$$

$$31. \frac{x}{x+c} = b$$

$$37. \frac{1}{a} + \frac{1}{x} = b$$

$$32. \frac{x-a}{x+c} = b$$

$$38. \frac{4}{x} = \frac{a}{x+6}$$

$$39. \frac{14}{x+2} = \frac{a}{x+2} - a$$

$$45. \frac{b}{2x-4} - 3 = \frac{b}{2x-4} - b + 1$$

$$40. \frac{2}{x+3} - a = \frac{a+b}{x+3}$$

$$46. \frac{1}{ax+2} = \frac{b}{x+a}$$

$$41. \frac{5}{2x+1} - 3a = \frac{b}{2x+1}$$

$$47. \frac{1}{ax+2} = \frac{b}{ax+2} - 3$$

$$42. \frac{-2x}{a+3} = \frac{x+2}{2a-1}$$

$$48. 3 \frac{x}{ax+2} = 3$$

$$43. \frac{-5x+1}{2a} = \frac{bx}{3a+2}$$

$$49. -3 \frac{2x}{ax+3} = b$$

$$44. \frac{a}{x+2} = \frac{b}{x+2} - b + 1$$

$$50. \frac{2x-3}{2ax+5} = -3b$$