

Further Factorising

Factorise and simplify the following:

$$1. \frac{2x+6}{2x+2}$$

$$11. \frac{3x+15}{4x+20}$$

$$2. \frac{3x+15}{x^2+7x+10}$$

$$12. \frac{x^2+4x+3}{x^2+8x+7}$$

$$3. \frac{x^2+10x+24}{x^2+9x+18}$$

$$13. \frac{x^2-x-6}{x^2-5x+6}$$

$$4. \frac{x^2+10x+25}{x^2+3x-10}$$

$$14. \frac{2x^2+x}{3x^2+x}$$

$$5. \frac{x^2-2x-63}{x^2-5x-36}$$

$$15. \frac{x^2-x-12}{2x^2-5x-12}$$

$$6. \frac{x^2+x-30}{x^2-2x-15}$$

$$16. \frac{4x^2+4x+1}{2x^2+3x+1}$$

$$7. \frac{x^2-9x+14}{x^2-11x+28}$$

$$17. \frac{3x^2+10x-8}{2x^2+5x-12}$$

$$8. \frac{x^2-49}{2x-14}$$

$$18. \frac{2x^2+7xy+3y^2}{2x^2+3xy+y^2}$$

$$9. \frac{x^2+x-6}{2x^2+7x+3}$$

$$19. \frac{8a^2+16ab+6b^2}{20a^2+22ab+6b^2}$$

$$10. \frac{x^2+9x+20}{2x^2+11x+12}$$

$$20. \frac{12a^2-22ab+6b^2}{6a^2-3ab-9b^2}$$

Further Factorising - Answers

Factorise and simplify the following:

$$1. \frac{x+3}{x+1}$$

$$2. \frac{3}{x+2}$$

$$3. \frac{x+4}{x+3}$$

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

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

$$6. \frac{x+6}{x-3}$$

$$7. \frac{x-2}{x-4}$$

$$8. \frac{x+7}{2}$$

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

$$10. \frac{x+5}{2x+2}$$

$$11. \frac{3}{4}$$

$$12. \frac{x+3}{x+7}$$

$$13. \frac{x+2}{x-2}$$

$$14. \frac{2x+1}{3x+1}$$

$$15. \frac{x+3}{2x+3}$$

$$16. \frac{2x+1}{x+1}$$

$$17. \frac{3x-2}{2x-3}$$

$$18. \frac{x+3y}{x+y}$$

$$19. \frac{2a+3b}{5a+3b}$$

$$20. \frac{6a-2b}{3a+3b}$$