

Algebra - Factorising 1

1. Factorise and simplify each of the following:

a. $2x + 20$

b. $x^2 + 10x + 25$

c. $x^2 + 3x - 10$

d. $x^2 - 36$

e. $\frac{x^2+2x+1}{x+1}$

f. $\frac{x+4}{x-1} \times \frac{x^2-1}{x+3}$

g. $\frac{x^2-3x+2}{x^2-4} \div \frac{x^2-1}{x+2}$

h. $x^4 - 16$

i. $x^2 - \frac{4}{9}$

j. $2x^3 + 4x^2 + x$

k. $3x^2 + 6x + 3$

l. $\frac{2x-6}{x^2-5x+4} \times \frac{x^2-16}{x^2-9}$