

(C2-1.2) Name:

Homework Questions 2 – Factorizing to Cancel

Simplify the following by factorizing first

a) $\frac{x^2 + 5x + 6}{x + 2}$

b) $\frac{x^2 + 6x - 7}{x - 1}$

c) $\frac{x^2 + 2x - 15}{x - 3}$

d) $\frac{x^2 + 10x + 24}{x + 6}$

e) $\frac{2x^2 - 10x + 12}{x - 3}$

f) $\frac{x^2 - 9x + 20}{x - 4}$

g) $\frac{x^2 - 49}{x - 7}$

h) $\frac{x^2 + 10x + 9}{x + 1}$

i) $\frac{4x^2 + 12x + 9}{2x + 3}$

j) $\frac{7x^3y - 28xy^3}{x - 2y}$