

(C2-1.2a) Name:

## Homework Questions 2 – Factorizing to Cancel

Simplify the following by factorizing first

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

$x + 3$

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

$x + 7$

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

$x + 5$

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

$x + 4$

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

$2x - 4$

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

$x - 5$

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

$x + 7$

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

$x + 9$

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

$2x + 3$

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

$7xy(x + 2y)$