

Name: _____



maths-school.co.uk

Simplify the following

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

$$\frac{1}{x}$$

g) $\frac{x-2}{x^2-6x+8}$

$$\frac{1}{x-4}$$

b) $\frac{x+1}{3x^2+3x}$

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

h) $\frac{7x-7}{x^2-1}$

$$\frac{7}{x+1}$$

c) $\frac{4x+8}{3x^2+6x}$

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

i) $\frac{x^2+5x+6}{x^2+7x+10}$

$$\frac{x+3}{x+5}$$

d) $\frac{x+3}{x^2+5x+6}$

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

j) $\frac{x^2+9x+14}{x^2-4}$

$$\frac{x+7}{x-2}$$

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

$$\frac{1}{x-1}$$

k) $\frac{x^2-12x+35}{x^2-13x+42}$

$$\frac{x-5}{x-6}$$

f) $\frac{2x+6}{x^2+10x+21}$

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

l) $\frac{2x+10}{3x^2+13x-10}$

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

Exam question:

a) Factorise $x^2 - 6x + 8$

$$(x-4)(x-2)$$

b) Hence simplify $\frac{2x-8}{x^2-6x+8}$

$$\frac{2}{x-2}$$

