

Name:

Class/Set:

# Algebraic Fractions - Simplify 2

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1: Simplify the following as far as possible:

a)  $\frac{v^2 - 6v + 8}{v - 2}$

b)  $\frac{u^2 - 7u + 12}{u - 3}$

c)  $\frac{h^2 - h - 6}{h - 3}$

d)  $\frac{n^2 - 4n + 3}{n - 3}$

e)  $\frac{x^2 + 2x - 8}{x + 4}$

f)  $\frac{r^2 + 5r + 4}{r + 4}$

2: Simplify the following as far as possible:

a)  $\frac{f^2 - 4}{f + 2}$

b)  $\frac{t^2 - 49}{t + 7}$

c)  $\frac{q^2 - 1}{q - 1}$

3: Simplify the following as far as possible:

a)  $\frac{e^2 - 4}{e^2 - 2e}$

b)  $\frac{y^2 - 16}{y^2 + 4y}$

c)  $\frac{a^2 - 36}{a^2 + 6a}$

4: Simplify the following as far as possible:

a)  $\frac{k^2 - 3k - 10}{k^2 - 4}$

b)  $\frac{b^2 - 2b - 15}{b^2 - b - 20}$

c)  $\frac{w^2 - 9w + 20}{w^2 - 3w - 10}$

d)  $\frac{z^2 + 2z - 8}{z^2 + 7z + 12}$

e)  $\frac{j^2 - 5j + 6}{j^2 + 2j - 15}$

f)  $\frac{p^2 - p - 20}{p^2 + 5p + 4}$

5: Simplify the following as far as possible:

a)  $\frac{s^2 - 16}{s^2 + s - 20}$

b)  $\frac{m^2 - 100}{m^2 - 10m}$

c)  $\frac{c^2 + 3c + 2}{c + 1}$

d)  $\frac{g^2 - 9}{g - 3}$

e)  $\frac{t^2 - 7t + 12}{t^2 - 6t + 8}$

f)  $\frac{f^2 - 16}{f - 4}$

# Answers: Algebraic Fractions - Simplify 2

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1: a)  $v - 4$       b)  $u - 4$       c)  $h + 2$       d)  $n - 1$       e)  $x - 2$       f)  $r + 1$

2: a)  $f - 2$       b)  $t - 7$       c)  $q + 1$

3: a)  $\frac{e+2}{e}$       b)  $\frac{y-4}{y}$       c)  $\frac{a-6}{a}$

4: a)  $\frac{k-5}{k-2}$       b)  $\frac{b+3}{b+4}$       c)  $\frac{w-4}{w+2}$       d)  $\frac{z-2}{z+3}$       e)  $\frac{j-2}{j+5}$       f)  $\frac{p-5}{p+1}$

5: a)  $\frac{s+4}{s+5}$       b)  $\frac{m+10}{m}$       c)  $c + 2$       d)  $g + 3$       e)  $\frac{t-3}{t-2}$       f)  $f + 4$