

**Fractions with Factors Past Paper Questions Edexcel – None Calculator**

1.

i (a) Simplify  $\frac{2y-12}{y^2-8y+12}$

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(3)

(b) Write as a single fraction  $\frac{3}{x-4} - \frac{1}{x+5}$

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(2)

2.

Simplify completely  $\frac{2x^2 - 9x - 5}{4x^3 + 2x^2}$

3.

Simplify fully  $\frac{2x^2 + 6x}{x^2 - 2x - 15}$

4.

Simplify fully  $\frac{2x^2 + 5x - 3}{x^2 - 9}$

5.

Simplify fully  $\frac{x^2 - 2x - 15}{x^2 - 4x - 21}$

6.

Write  $\frac{3}{b} + \frac{2}{a-b}$  as a single fraction in its simplest form.

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7.

Simplify  $\frac{x^2 - 3x}{2x^2 - 5x - 3}$

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8.

Write as a single fraction in its simplest form

$$\frac{2x}{x-1} - \frac{7x-3}{x^2-1}$$

9.

Write as a single fraction  $\frac{1}{2x} + \frac{1}{5x} - \frac{1}{3x}$

(\*)

.....  
(2)

10.

Simplify fully  $\frac{4}{2-x} - \frac{3}{x}$

11.

Simplify fully  $\frac{x^2 - 2x - 15}{2x^2 + 7x + 3}$

12.

Simplify fully  $\frac{x+3}{4} + \frac{x-5}{3}$