Essential Skills 21

The questions in this series of worksheets appear frequently.

These are the GIFTS you must take to succeed

Algebraic Fractions 2   (Non Calculator)

By factorising numerators and denominators, simplify:

1. $\dfrac{x^2+5x+6}{3x+6}$

2. $\dfrac{x^2+4x-21}{2x+14}$

3. $\dfrac{x^2+8x+12}{x^2+6x}$

4. $\dfrac{x^2-9x+14}{x^2+3x-10}$

5. $\dfrac{2x^2-5x-3}{x^2-9}$

6. $\dfrac{3x-2}{3x^2+13x-10}$

7. $\dfrac{2x^2-50}{4x^2-19x-5}$

8. $\dfrac{4x^2-4x-3}{2x^2-5x+3}$

9. $\dfrac{2x^2+7x+3}{3x^2+8x-3}$

10. $\dfrac{x^2+x-56}{2x^2+11x-40}$

APPLYING QUESTION

(a) $x^2 - 3x - 54$

(b) Hence, simplify $\dfrac{x^2-3x-54}{3x^2+17x-6}$