**1B Multiplying & Dividing Algebraic Fractions**

1. Simplify/ Solve
2. $\frac{1}{2}×\frac{3}{5}$
3. $\frac{a}{c}×\frac{b}{d}$
4. $\frac{3}{5}×\frac{5}{9}$
5. $\frac{a}{b}×\frac{c}{a}$

1. $\frac{x+1}{2}×\frac{3}{x^{2}-1}$
2. Simplify/ Solve
3. $\frac{5}{6}÷\frac{1}{3}$
4. $\frac{a}{b}÷\frac{a}{c}$
5. $\frac{x+2}{x+4}÷\frac{3x+6}{x^{2}-16}$

**1C Adding & Subtracting Algebraic Fractions**

1. Simplify/ Solve
2. $\frac{1}{3}+\frac{3}{4}$
3. $\frac{a}{x}+b$
4. $\frac{3}{x+1}+\frac{4x}{x^{2}-1}$

**1D Partial Fractions Introduction**

1. Split

$$\frac{6x-2}{(x-3)(x+1)}$$

 into partial fractions

1. Split

$$\frac{6x^{2}+5x-2}{x(x-1)(2x+1)}$$

 into partial fractions

**1E Repeated Denominators**

1. Split

$$\frac{11x^{2}+14x+5}{(x+1)^{2}(2x+1)}$$

 into partial fractions

**1F/G Top Heavy Fractions**

1. Given that $\frac{x^{3}+x^{2}-7}{x-3}≡Ax^{2}+Bx+C+\frac{D}{x-3}$, find the values of $A$, $B$, $C$ and $D$

1. Given that:

$$x^{4}+x^{3}+x-10≡\left(Ax^{2}+Bx+C\right)\left(x^{2}+2x-3\right)+Dx+E$$

find the values of $A$, $B$, $C$, $D$ and $E$.

1. Split

$$\frac{3x^{2}-3x-2}{(x-1)(x-2)}$$

 into partial fractions