

**Advanced Higher Maths**  
**Practice for Methods in Algebra and Calculus**

**Assessment Standard 1.1 Partial Fractions**

Express the following in partial fractions.

1.  $\frac{4x+3}{(x-1)(x+6)}$

2.  $\frac{3x-16}{(x+3)(x-2)}$

3.  $\frac{7x-5}{(x-1)^2}$

4.  $\frac{3x+5}{(x+2)^2}$  .

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

6.  $\frac{4x+1}{x^3-x^2+x-6}$

3 marks each