

PURE MATHS HOMEWORK – PARTIAL FRACTIONS

Write your solutions on A4 paper and show your method.

Marks will be given for setting your work out clearly.

You must do your own work.

- 1) State the degree of the numerator and the degree of the denominator of the algebraic fraction

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

- 2) Is this fraction proper or improper?
- 3) Use algebraic long division to split this into ‘whole’ algebraic terms and a proper algebraic fraction.
- 4) Resolve the proper algebraic fraction into partial fractions.