



Partial Fraction Decomposition

Version 1

Name: _____

Date: _____

Score: _____

Direction: Decompose the given rational expression into partial fractions. Show all your work in the space provided.

1) $\frac{4x+1}{x^2-x} =$

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

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

4) $\frac{x+5}{x^3-5x} =$



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Direction: Decompose the given rational expression into partial fractions. Show all your work in the space provided.

$$1) \frac{4x+1}{x^2-x} = \frac{5}{x-1} - \frac{1}{x}$$

$$2) \frac{x+1}{x^2-x-6} = \frac{4}{5(x-3)} + \frac{1}{5(x+2)}$$

$$3) \frac{x^2}{(x-2)^3} = \frac{1}{x-2} + \frac{4}{(x-2)^2} + \frac{4}{(x-2)^3}$$

$$4) \frac{x+5}{x^3-5x} = \frac{x+1}{x^2-5} - \frac{1}{x}$$