
Partial Fractions in Integration 2 - Edexcel Past Exam Questions

1.
$$f(x) = \frac{1}{x(3x-1)^2} = \frac{A}{x} + \frac{B}{(3x-1)} + \frac{C}{(3x-1)^2}.$$

(a) Find the values of the constants A , B and C . (4)

(b) (i) Hence find $\int f(x) \, dx$.

(ii) Find $\int_1^2 f(x) \, dx$, leaving your answer in the form $a + \ln b$, where a and b are constants. (6)

June 12 Q1

2. Given that $y > 0$, find

$$\int \frac{3y-4}{y(3y+2)} \, dy.$$

(6)

June 16 Q6(edited)
