Let  $f(x) = \frac{5x^2 + x + 27}{(2x+1)(x^2+9)}$ . (i) Express f(x) in partial fractions.

- [5]
- (ii) Hence find  $\int_0^4 f(x) dx$ , giving your answer in the form  $\ln c$ , where c is an integer. [5]