

2.

$$f(x) = \frac{6x - 5}{2x + 1} \quad x > -\frac{1}{2}$$

(a) Show that

$$f(x) = A + \frac{B}{2x + 1}$$

where A and B are constants to be found.

(2)

(b) Hence find

$$\int f(x) \, dx$$

giving your answer in simplest form.

(2)