

**Question 4****(6 marks)**

- (a) Express  $\frac{x-8}{(x+2)(x-3)}$  in the form  $\frac{a}{x+2} + \frac{b}{x-3}$ . (3 marks)

- (b) Hence determine  $\int \frac{x-8}{(x+2)(x-3)} dx$ . (3 marks)