

- 8**     **(i)** Find the first three terms in the expansion of  $(4-x)^{-\frac{1}{2}}$  in ascending powers of  $x$ .     **[4]**
- (ii)** The expansion of  $\frac{a+bx}{\sqrt{4-x}}$  is  $16-x \dots$ . Find the values of the constants  $a$  and  $b$ .     **[3]**