$\sqrt{1+4x}$  giving each coefficient in its simplest form. (4)

The expansion can be used to find an approximation for 
$$\sqrt{26}$$
  
(b) Explain why  $x = \frac{25}{4}$  should not be used in the expansion to find an

approximation for  $\sqrt{26}$ 

2. (a) Find the first 4 terms, in ascending powers of x, of the binomial expansion of

(c) Explain how you could use 
$$x = \frac{1}{100}$$
 in the expansion to find an approximation for  $\sqrt{26}$ 

There is no need to carry out the calculation.

tion.