

Find the first three terms, in ascending powers of x, of the binomial expansion of

9 (a)

By substituting $x = -\frac{1}{4}$ in your expansion for $(1+x)^{-\frac{1}{2}}$ find an approximation for $\frac{1}{\sqrt{3}}$ 9 (c)

Give your answer to three significant figures. [3 marks]