

6 The first four terms in ascending powers of x of the binomial expansion of $(2 - 3x)^5$ are given by

$$32 + px + qx^2 - 1080x^3$$

where p and q are constants.

6 (a) Find the value of p and the value of q **[2 marks]**

6 (b) Hence find an approximation for 1.94^5
Give your answer to five decimal places. **[2 marks]**