

#### C4 Binomial Expansion Exam Questions

[C4 Jan 2014(R) Q1]

1. (a) Find the binomial expansion of

$$\frac{1}{\sqrt{9-10x}}, \quad |x| < \frac{9}{10}$$

in ascending powers of  $x$  up to and including the term in  $x^2$ .  
Give each coefficient as a simplified fraction.

(5)

- (b) Hence, or otherwise, find the expansion of

$$\frac{3+x}{\sqrt{9-10x}}, \quad |x| < \frac{9}{10}$$

in ascending powers of  $x$ , up to and including the term in  $x^2$ .  
Give each coefficient as a simplified fraction.

(3)

[C4 Jan 2014(I) Q1]

2. (a) Find the binomial expansion of

$$\frac{1}{(4+3x)^2}, \quad |x| < \frac{4}{3}$$

in ascending powers of  $x$ , up to and including the term in  $x^3$ .  
Give each coefficient as a simplified fraction.

(6)

In the binomial expansion of

$$\frac{1}{(4-9x)^2}, \quad |x| < \frac{4}{9}$$

the coefficient of  $x^2$  is  $A$ .

- (b) Using your answer to part (a), or otherwise, find the value of  $A$ .  
Give your answer as a simplified fraction.

(2)

[C4 June 2013 Q2]

3. (a) Use the binomial expansion to show that

$$\sqrt{\frac{1+x}{1-x}} \approx 1+x+\frac{1}{2}x^2, \quad |x| < 1$$

(6)

- (b) Substitute  $x = \frac{1}{26}$  into

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