www.m4ths.com - A Level Maths
3 Exam Questions
Yr 1 – The Binomial Expansion

(1) The constant in the binomial expansion of $\left(2x+\frac{p}{x^2}\right)^9$ is 34560. Find the value of p.

(2) (a) Find the first 4 terms in the binomial expansion of $(1+2x)^7$ in ascending powers of x.

(b) By using a suitable value of x, find a cubic approximation of the value of 0.96^7.

(c) Find the percentage error of the approximation found in part (a) to 3 significant figures.

(3) The constant and the term in x have the same value in the binomial expansion of $(p+x)^4$ where p is a none-zero constant. Find the term in x^3 in the expansion.

www.m4ths.com - A Level Maths
3 Exam Questions
Yr 1 – The Binomial Expansion

(1) The constant in the binomial expansion of $\left(2x+\frac{p}{x^2}\right)^9$ is 34560. Find the value of p.

(2) (a) Find the first 4 terms in the binomial expansion of $(1+2x)^7$ in ascending powers of x.

(b) By using a suitable value of x, find a cubic approximation of the value of 0.96^7.

(c) Find the percentage error of the approximation found in part (a) to 3 significant figures.

(3) The constant and the term in x have the same value in the binomial expansion of $(p+x)^4$ where p is a none-zero constant. Find the term in x^3 in the expansion.

www.m4ths.com - A Level Maths
3 Exam Questions
Yr 1 – The Binomial Expansion

(1) The constant in the binomial expansion of $\left(2x+\frac{p}{x^2}\right)^9$ is 34560. Find the value of p.

(2) (a) Find the first 4 terms in the binomial expansion of $(1+2x)^7$ in ascending powers of x.

(b) By using a suitable value of x, find a cubic approximation of the value of 0.96^7.

(c) Find the percentage error of the approximation found in part (a) to 3 significant figures.

(3) The constant and the term in x have the same value in the binomial expansion of $(p+x)^4$ where p is a none-zero constant. Find the term in x^3 in the expansion.

www.m4ths.com - A Level Maths
3 Exam Questions
Yr 1 – The Binomial Expansion

(1) The constant in the binomial expansion of $\left(2x+\frac{p}{x^2}\right)^9$ is 34560. Find the value of p.

(2) (a) Find the first 4 terms in the binomial expansion of $(1+2x)^7$ in ascending powers of x.

(b) By using a suitable value of x, find a cubic approximation of the value of 0.96^7.

(c) Find the percentage error of the approximation found in part (a) to 3 significant figures.

(3) The constant and the term in x have the same value in the binomial expansion of $(p+x)^4$ where p is a none-zero constant. Find the term in x^3 in the expansion.

www.m4ths.com - A Level Maths
3 Exam Questions
Yr 1 – The Binomial Expansion

(1) The constant in the binomial expansion of $\left(2x+\frac{p}{x^2}\right)^9$ is 34560. Find the value of p.

(2) (a) Find the first 4 terms in the binomial expansion of $(1+2x)^7$ in ascending powers of x.

(b) By using a suitable value of x, find a cubic approximation of the value of 0.96^7.

(c) Find the percentage error of the approximation found in part (a) to 3 significant figures.

(3) The constant and the term in x have the same value in the binomial expansion of $(p+x)^4$ where p is a none-zero constant. Find the term in x^3 in the expansion.

www.m4ths.com - A Level Maths
3 Exam Questions
Yr 1 – The Binomial Expansion

(1) The constant in the binomial expansion of $\left(2x+\frac{p}{x^2}\right)^9$ is 34560. Find the value of p.

(2) (a) Find the first 4 terms in the binomial expansion of $(1+2x)^7$ in ascending powers of x.

(b) By using a suitable value of x, find a cubic approximation of the value of 0.96^7.

(c) Find the percentage error of the approximation found in part (a) to 3 significant figures.

(3) The constant and the term in x have the same value in the binomial expansion of $(p+x)^4$ where p is a none-zero constant. Find the term in x^3 in the expansion.