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Binomial Expansion | Past Paper Question | C2 Edexcel January 2013 Q1

Find the first 3 terms, in ascending powers of x , in the binomial expansion of $(2-5x)^6$
Give each term in its simplest form.

$$(a+b)^n \equiv {}^n C_0 a^n b^0 + {}^n C_1 a^{n-1} b^1 + {}^n C_2 a^{n-2} b^2 + {}^n C_3 a^{n-3} b^3 + \dots + {}^n C_n a^0 b^n$$

$$(2-5x)^6 \equiv {}^6 C_0 (2)^6 (-5x)^0 + {}^6 C_1 (2)^5 (-5x)^1 + {}^6 C_2 (2)^4 (-5x)^2 + \dots$$

$$\equiv 64 - 960x + 6000x^2 + \dots$$



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