18)	(a)	Write down the expansion of $(1 + x)^6$ in ascending powers of x up to and including in x^3 .	the term [2]
	(b)	By substituting an appropriate value for x in your expansion in (a), find an appropriate value for 0.99^6 . Show all your working and give your answer correct to four places.	roximate decimal [3]
			June 10
(9)	Use	Use the binomial theorem to express $(1+\sqrt{3})^5$ in the form $a+b\sqrt{3}$, where a, b are integers whose values are to be found. [5]	
			Jan 11
80	(a)	Use the binomial theorem to expand $(3+2x)^4$, simplifying each term of the exp	pansion. [4]
	(b) In the binomial expansion of $\left(1+\frac{x}{4}\right)^n$, the coefficient of x^2 is five times the coefficient		fficient
		of x . Given that n is a positive integer, find the value of n .	[4]
			June 11
81)	(a)	Use the binomial theorem to expand $\left(x+\frac{3}{x}\right)^4$, simplifying each term of the exp	eansion. [4]
	(b)	The coefficient of x^2 in the expansion of $(1+2x)^n$ is 760. Given that n is a positive integer, find the value of n .	[5]
			Jan 12
82)	Using the binomial theorem, write down and simplify the first four terms in the expansion $(1-2x)^6$ in ascending powers of x.		
			June 12
<u>@</u>	In t	In the binomial expansion of $(a + 4a)^5$, where $a \neq 0$ the coefficient of the term in x^2 is twice the coefficient of the term in x . Find the value of a .	
			100.54

:05 5. .v