Algebra II 5.7 Binomial Expansion WS  Expand each binomial.	NamePeriodDate
$\frac{1.(x+2)^{4}}{x^{4}+4x^{3}(z)+6x^{2}(z)^{2}+4x(z)^{3}+(z)^{4}}$ 2. (n-3) <sup>3</sup>	$\frac{3.(2a+2)^{2}}{\left(2a\right)^{2}+d(2a)(2)}+\left(2\right)^{2}$
$\frac{(4+8)^{4}}{(4+8)^{3}+24} = \frac{(2)^{4}+4}{(2)^{2}+4} = \frac{(2)^{4}}{(2)^{4}+3} = \frac{(2)^{4}+3}{(2)^{4}+3} = \frac{(2)^{4}+3}{(2$	$\frac{(n)(-3)+(-5)}{27}$ $\left  \frac{4a^2+8a+41}{27} \right $
$(x^{2})^{4} + 4(x^{2})^{3}(-y^{2}) + 6(x^{2})^{2}(-y^{2})^{2} + 4(x^{2})(-y^{2})^{3} + (-y^{2})^{3} + (-y^{2})^{4} + 4(x^{2})(-y^{2})^{4} + (-y^{2})(-y^{2})^{4} + (-y^{2})(-y^{2})^{$	$8x^3 + 36x^2y + 54xy^2 + 27y$
Find the specified term of each binomial expansion.	
6. third term of $(x-2y)^5$ 7. second term of $(x^2+y^3)^5$	1.1 . 2
$3(x^2)(y^2)$	$4(x^{2})(-2y)^{3}$
140x3y2/ (3x4y27	$\sqrt{-37x^2u^3}$
9. The term $126c^4d^5$ appears in the expansion of $(c+d)^2$ . What is $n$ ?	
10. The coefficient of the second term in the expansion of $(r + s)^n$ is	Thind the value of n, and write the complete term.
Row 7 b/c outside#'s a	
11. Use Pascal's Triangle to determine the binomial of the expanded $x^6 + 6x^5 + 15x^4 + 20x^3 + 15x^2 + 6x + 1$ .	
· •	7(r)'s -17r's
$(X+1)^{6}$	
12. Error Analysis Your friend expands the binomial $(x-2)^6$ as	
$x^6 + 12x^5 + 30x^4 + 160x^3 + 240x^2 + 192x + 64$ . What mistake did your friend make? What is the correct expansion?	
DIG TO TAKE IT CONSIDER	

 $\frac{|(x)^{6} + (6(x^{5})(-2)^{2} + |5(x)^{4}(-2)^{2} + |3(x^{3}(-2)^{3} + |5(x)^{2}(-2)^{4} + (6(x^{2})(-2)^{5} + |-2)^{6}}{|x^{6} - |2x^{5} + (6)x^{4} - |80x^{3} + 240x^{2} - |92x^{4}(-2)^{4} + |-2|^{6}}$ Scanned by CamScanner