Pre-AP Precal

Binomial Expansion

Name _____ Date _____

1. Expand: $(a+b)^6$

2. Expand and simplify: $(7+d)^4$

3. Expand and simplify: $(2b-7c)^3$

4. Write the first 3 terms of the expansion $(m-3)^{40}$.

5. Write the 6th term in the expansion $(c+d)^{12}$.

6. Write the 4th term in the expansion $\left(3m-\frac{n}{3}\right)^7$.

7. Write the middle term in the expansion $\left(m+\frac{n^2}{2}\right)^6$.

8. Write the term in the expansion of $(4c+2d)^6$ that contains c^4.

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Answer List

1. $a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6$
2. $2401 + 1372d + 294d^2 + 28d^3 + d^4$
3. $8b^3 - 84b^2c + 294bc^2 - 343c^3$
4. $m^{40} - 120m^{39} + 7020m^{38}$
5. $792c^7d^5$
6. $-105m^4n^3$
7. $\frac{5m^3n^6}{2}$
8. $15,360c^4d^2$

Catalog List

1. TRI LL 4
2. TRI LL 6
3. TRI LL 8
4. TRI LL 22
5. TRI LL 45
6. TRI LL 49
7. TRI LL 62
8. TRI LL 73