1. Use the Binomial Theorem to expand  $(x^3 - 2)^5$ .

2. Find the coefficient of  $x^4$  in the expansion of  $(3x-1)^6$ .

Q: What are the next two letters in this sequence: A E F H I K L M?

3. Use the Binomial Theorem to expand  $(2x-3)^6$ .

4. Use the Binomial Theorem to expand  $(x^2 + 2)^5$ .

5. Use the Binomial Theorem to find the first three terms in the expansion of  $\left(\frac{1}{x}+1\right)^{17}$ .

6. Use the Binomial Theorem to find the first three terms in the expansion of  $\left(2-\frac{x}{2}\right)^{20}$ .

7. Find the coefficient of  $x^5$  in the expansion of  $(x-2)^9$ .

8. Find the coefficient of  $x^6$  in the expansion of  $(2x + 3)^8$ .