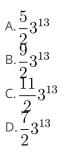
Related Questions with Solutions

Questions

Quetion: 01

Numerically greatest term in the expansion of $(2 + 3x)^9$ when $x = \frac{3}{2}$ is



Solutions

Solution: 01

$$\begin{aligned} \overline{(2+3x)^9 \text{ when } x} &= \frac{3}{2} \\ m &= \frac{9+1}{1+\left|\frac{2}{|3\cdot\frac{3}{2}}\right|} = \frac{10}{1+\frac{4}{9}} = \frac{90}{13} \\ \text{Numerically Greatest Term is } T_7 &= {}^9\text{C}_6(2)^3 \left(3.\frac{3}{2}\right)^6 \\ &= 84 \times \frac{8 \times 3^{12}}{2^6} = 7.\frac{3^{13}}{2} \end{aligned}$$

Correct Options

Answer:01 Correct Options: D