



次の式の展開式において、【】内に指定された項の係数を求めよ。

(1) $(x - 4y)^5$ $[x^3y^2]$

(2) $(a + b + c)^8$ $[a^3b^3c^2]$

(1) $\binom{5}{2} (-4)^2 = 10 \cdot 16 = \underline{160}$

(2) $\frac{8!}{3!3!2!} = \frac{\textcircled{8} \textcircled{7} \textcircled{6} \textcircled{5} \textcircled{4} \textcircled{3} \textcircled{2} \textcircled{1}}{3 \cdot 2 \cdot 1 \cdot 3 \cdot 2 \cdot 1 \cdot 2 \cdot 1} = \underline{560}$