

$$\begin{aligned}
 \text{(c) Area of ABCD} &= (2q \times 2q) \text{ cm}^2 \\
 &= 4q^2 \text{ cm}^2
 \end{aligned}$$

ABCD has a greater area.

$$\begin{aligned}
 \text{Difference of 2 areas} &= [4q^2 - (4q^2 - 1)] = 1 \text{ cm}^2
 \end{aligned}$$

ABCD is bigger than WXYZ by 1cm^2 . (ans)



3. Solution:

$$\begin{aligned}
 \text{(a) } (2a^2b)^3 (4ab^{-1}) &= (8a^6b^3)4ab^{-1} \\
 &= 32a^7b^2 \text{ (ans)}
 \end{aligned}$$

$$\begin{aligned}
 \text{(b) } \sqrt[3]{p^6q^3} \times 3p^0 &= \sqrt[3]{(p^2q)^3} \times 3p^0 \\
 &= p^2q \times 3p^0 \quad \left[\begin{array}{c} \text{p}^0 = 1 \end{array} \right] \\
 &= p^2q \times 3 \\
 &= 3p^2q \text{ (ans)}
 \end{aligned}$$



4. Solution:

$$\begin{aligned}
 \text{(a) } (2x-1)(2x^3+x^2+6x+3) &= 4x^4 + 2x^3 + 12x^2 + 6x - (2x^3 + x^2 + 6x + 3) \\
 &= 4x^4 + 2x^3 + 12x^2 + 6x - 2x^3 - x^2 - 6x - 3 \\
 &= 4x^4 + 2x^3 - 2x^3 + 12x^2 - x^2 + 6x - 6x - 3 \\
 &= 4x^4 + 11x^2 - 3 \text{ (ans)}
 \end{aligned}$$

$$\begin{aligned}
 \text{(b) } (2x+9)^2 - (x-9)^2 - 54x &= (4x^2 + 36x + 81) - (x^2 - 18x + 81) - 54x \\
 &= 4x^2 + 36x + 81 - x^2 + 18x - 81 - 54x \\
 &= 4x^2 - x^2 + 36x + 18x - 54x + 81 - 81 \\
 &= 3x^2 \text{ (ans)}
 \end{aligned}$$

