

أبسط

$$\begin{aligned}
 A &= x^4 \times (x^3)^2 \times x^{-3} \\
 &= x^4 \times x^6 \times x^{-3} \\
 &= x^{4+6-3} \\
 \boxed{A} &= \boxed{x^7}
 \end{aligned}$$

$$\begin{aligned}
 B &= (x^4 \times x^2)^3 \times (x^4)^{-2} \\
 &= (x^6)^3 \times (x^4)^{-2} \\
 &= x^{18} \times x^{-8} \\
 &= x^{18-8} \\
 \boxed{B} &= \boxed{x^{10}}
 \end{aligned}$$

$$\begin{aligned}
 D &= (-7x^2y^4)^2 \times (2xy^3)^2 \\
 &= (-7)^2 \times (x^2)^2 \times (y^4)^2 \times 2^2 \times x^2 (y^3)^2 \\
 &= 49x^4 \times y^8 \times 4 \times x^2 y^6 \\
 &= 49 \times 4 \times (x^4 \times x^2) \times (y^8 \times y^6) \\
 \boxed{D} &= \boxed{196 \times x^6 y^{14}}
 \end{aligned}$$

$$\begin{aligned}
 E &= \frac{x^4 \times (x^{-2}y)^5 \times x^{-6}y^3}{x^2 \times y^{-1} \times (x^{-3}y^{-2})^3} \\
 &= \frac{x^4 \times (x^{-2})^5 y^5 \times x^{-6} \times y^3}{x^2 \times y^{-1} (x^{-3})^3 \times (y^{-2})^3} \\
 &= \frac{x^4 \times x^{-10} \times y^5 \times x^{-6} \times y^3}{x^2 \times y^{-1} \times x^{-9} \times y^{-6}} \\
 &= \frac{x^4 \times x^{-10} \times x^{-6} \times y^5 \times y^3}{x^2 \times x^{-9} \times y^{-1} \times y^{-6}} \\
 &= \frac{x^{-12} y^8}{x^{-7} y^{-7}} \\
 &= x^{-12} y^8 \times x^7 y^7 \\
 &= x^{-12+7} \times y^{8+7} \\
 \boxed{E} &= \boxed{x^{-5} \times y^{15}}
 \end{aligned}$$

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