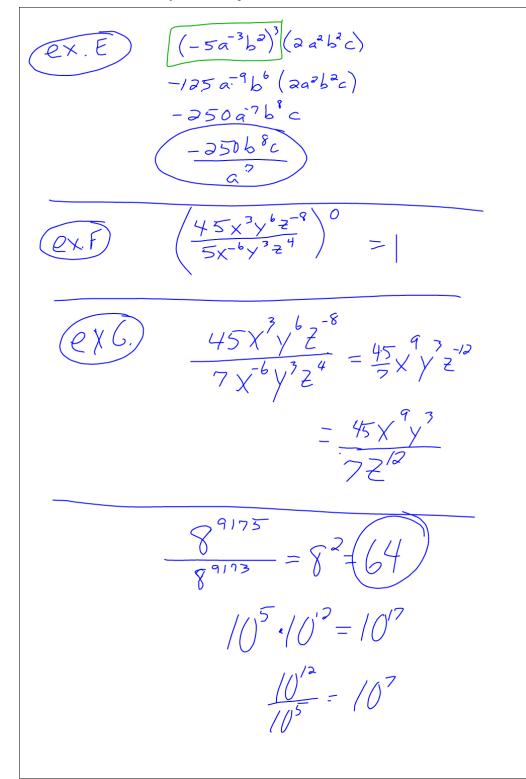
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 $\frac{\text{Product Property}}{X^{n} \cdot X^{n} = X^{n+n}} \qquad \begin{array}{c} \begin{array}{c} & \chi^{2} \cdot \chi^{4} \\ & \chi^{8} \cdot \chi^{10} = \chi^{18} \\ & \chi^{7} \cdot \chi^{-3} = \chi^{4} \end{array}$ Quotient Property $\frac{\chi^5}{\chi^2} = \frac{\frac{1}{2} \cdot \frac{1}{2} \cdot$ Negative Exponent $X^{-4} = \frac{1}{X^{4}}$ $X^{-m} = \frac{1}{X^{m}}$ $\frac{1}{x^{-m}} = x^{m} \qquad \frac{1}{y^{-3}} = y^{3}$ Power of a Power $\left(\chi^{2}\right)^{3} = \chi^{2} \chi^{2} \chi^{2} = \chi^{6}$ $(X^m)^n = X^{mn}$ Power of a Product $\frac{(\chi \gamma)^{m} = \chi \gamma m}{(\chi^{2} \gamma)^{4}} = \chi^{8} \gamma^{12}}{(\chi^{3})^{4}}$ $\frac{(\chi^{2} \gamma)^{4}}{(\chi^{3})^{4}} = \chi^{8} \gamma^{12}}{(\chi^{3})^{4}}$ $\left(\frac{x}{y}\right)^{-m} = \left(\frac{x}{y}\right)^{m} = \frac{y^{m}}{x^{m}}$ $= \frac{x^{-m}}{y^{-m}} = \frac{y^{m}}{x^{m}}$ $Z = 1 \qquad y^{*} \qquad 5^{\circ} = 1$ $2 x^{\circ} y^{2} z^{\circ} = 2y^{2} \qquad (-12)^{\circ} = 1$

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 $\left(-5x^{3}y^{4}\right)\left(\partial x^{7}y^{-3}\right)=\left(-10x^{10}y^{-1}\right)$ (exA) $-5.2 \times 10^{3} \times 10^{7} \times 10^{4} \times 10^{-7}$ p314 Study Tip - to simplify · no power of a power · each base appears exactly ance • all fractions h simplest form • no negative exponents $\frac{15m^{4}n^{6}}{-3m^{7}n^{2}} = -5m^{-3}n^{4} = -5n^{4}$ ex,C m³ 15 my 16 -3 m2 12 $\left(\frac{8\times8\times6}{2\times9\times9}\right)^{2} = \left(\frac{4\times6\times4}{2^{2}}\right)^{3} = \frac{64\times7}{2^{6}}$ ex.D .

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