

$$(4a^{-2}b^3)^{-2} (a^9b^{-2})^2$$

$$4^{-2} a^4 b^{-6} \cdot a^{18} b^{-4}$$

$$4^{-2} a^{22} b^{-10} =$$

$$\frac{a^{22}}{16b^{10}}$$

$$x^{-4} (\delta | x^4 y^8)$$

$$\delta | x^4 y^8$$

$\delta | y^8$

$$(4a^2)^{-3}$$

$$4^{-3} a^{-6}$$

$$= \frac{1}{4^3 a^6} = \frac{1}{64a^6}$$

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