

$x = \frac{1}{3}$, $y = \frac{1}{2}$ のとき, $\frac{9}{2}xy^2 \div (-3xy^3) \times 6x^2y^2$ の値を求めなさい。

$$\begin{aligned}\frac{9}{2}xy^2 \div (-3xy^3) \times 6x^2y^2 &= \frac{9}{2}xy^2 \times \left(-\frac{1}{3xy^3}\right) \times 6x^2y^2 \\ &= -\frac{9xy^2 \times 1 \times 6x^2y^2}{2 \times 3xy^3} \\ &= -9x^2y\end{aligned}$$

$x = \frac{1}{3}$, $y = \frac{1}{2}$ を代入して

$$-9x^2y = -9 \times \left(\frac{1}{3}\right)^2 \times \frac{1}{2} = -\frac{1}{2}$$