

$$\begin{aligned}
 \text{N}^\circ 417 & \left\{ \left[\left(\frac{9}{4} b^3 c^2 - \frac{5}{2} b^3 c^2 \right) \cdot \left(\frac{5}{4} b - \frac{1}{4} b + \frac{3}{2} b \right) + \frac{1}{2} b^2 c^2 \right] - (2bc)^2 \right\} \cdot \left(\frac{4}{7} bc^2 - \frac{1}{3} bc^2 \right) = \\
 & = \left\{ \left[\left(\frac{9-10}{4} \right) b^3 c^2 : \left(\frac{5-1+6}{4} \right) b + \frac{1}{2} b^2 c^2 \right] - 4b^2 c^2 \right\} \cdot \left(\frac{12-7}{21} \right) bc^2 = \\
 & = \left\{ \left[\left(-\frac{1}{4} b^3 c^2 \right) \cdot \left(\frac{10}{10} b \right) + \frac{1}{2} b^2 c^2 \right] - 4b^2 c^2 \right\} \cdot \frac{5}{21} bc^2 = \\
 & = \left\{ \left[-\frac{1}{10} b^3 c^2 + \frac{1}{2} b^2 c^2 \right] - 4b^2 c^2 \right\} \cdot \frac{5}{21} bc^2 = \\
 & = \left\{ \frac{-1+5-40}{10} \right\} b^2 c^2 \cdot \frac{5}{21} bc^2 = \frac{-36}{10} b^2 c^2 \cdot \frac{5}{21} bc^2 = -\frac{6}{7} b^3 c^4
 \end{aligned}$$

$$\begin{aligned}
 \text{N}^\circ 418 & \left[\left(-\frac{8}{3} x^2 \right) \left(-\frac{5}{4} y^2 \right) - \frac{8}{3} x^2 y^2 \right]^2 : \left(\frac{1}{6} x - \frac{3}{2} x \right)^2 - \left[\left(-\frac{7}{8} y \right) \left(\frac{12}{7} xy \right) \right]^2 = \\
 & = \left[+\frac{10}{3} x^2 y^2 - \frac{8}{3} x^2 y^2 \right]^2 : \left(\frac{1-9}{6} x \right)^2 - \left[-\frac{3}{2} xy \right]^2 = \\
 & = \left(\frac{2}{3} x^2 y^2 \right)^2 : \left(-\frac{8}{6} x \right)^2 - \frac{9}{4} x^2 y^4 = \\
 & = \frac{4}{9} x^4 y^4 \cdot \left(+\frac{9}{16} x^2 \right) - \frac{9}{4} x^2 y^4 = \left(\frac{1}{4} - \frac{9}{4} \right) x^2 y^4 = -\frac{8}{4} x^2 y^4 = -2x^2 y^4
 \end{aligned}$$

$$\begin{aligned}
 \text{N}^\circ 419 & \left\{ \left[\left(\frac{7}{3} ab^2 \right)^4 : \left(\frac{7}{3} ab^2 \right)^3 \left(\frac{7}{3} ab^2 \right)^1 - 3a^2 b^4 \right] : \frac{11}{3} ab^3 \right\}^2 \cdot \left[\left(-\frac{3}{2} a \right)^2 - \frac{3}{2} a^2 \right] = \\
 & = \left\{ \left[\left(\frac{7}{3} ab^2 \right)^2 - 3a^2 b^4 \right] \cdot \frac{3}{11} a^{-1} b^{-3} \right\}^2 \cdot \left[\frac{9}{4} a^2 - \frac{3}{2} a^2 \right] = \\
 & = \left\{ \left[\frac{49}{9} a^2 b^4 - 3a^2 b^4 \right] \cdot \frac{3}{11} a^{-1} b^{-3} \right\}^2 \cdot \left[\frac{9-6}{4} a^2 \right] = \\
 & = \left\{ \left[\frac{49-27}{9} a^2 b^4 \right] \cdot \frac{3}{11} a^{-1} b^{-3} \right\}^2 \cdot \left[\frac{3}{4} a^2 \right] = \\
 & = \left\{ \frac{22}{9} a^2 b^4 \cdot \frac{3}{11} a^{-1} b^{-3} \right\}^2 \cdot \left[\frac{3}{4} a^2 \right] = \\
 & = \left\{ \frac{2}{3} ab \right\}^2 \cdot \left[\frac{3}{4} a^2 \right] = \\
 & = \left(\frac{4}{9} a^2 b^2 \right) \cdot \left(\frac{3}{4} a^2 \right) = \frac{1}{3} a^4 b^2
 \end{aligned}$$