

MOCNINY S CELOČÍSELNÝM EXPONENTOM

$$\textcircled{1} -3^3 - (-2)^5 + (-7)^1 + 6^0 + (-4)^2 - 5^2 =$$

$$\textcircled{2} -2^5 - (-3)^3 + 8^0 + (-5)^2 + (-6)^1 - 4^2 =$$

$$\textcircled{3} -6^2 + (-9)^1 + (-3)^3 - (-2)^4 + 4^0 + (-8)^2 =$$

$$\textcircled{4} \left[\left(\frac{3}{4} - \frac{1}{8} \right)^{-1} \cdot \frac{3}{4} \right]^2 \cdot \left[\left(\frac{4}{3} - \frac{1}{2} \right)^{-1} \cdot \frac{2}{3} \right]^{-2} =$$

$$\textcircled{5} \left[\left(\frac{5}{4} - \frac{2}{3} \right)^{-1} \cdot \frac{5}{12} \right]^2 \cdot \left[\left(\frac{3}{4} - \frac{1}{3} \right)^{-1} \cdot \frac{7}{12} \right]^{-2} =$$

$$\textcircled{6} \left[\frac{5^3 \cdot (2 \cdot 3^3)^2}{3 \cdot (2 \cdot 3 \cdot 5)^3} \right]^2 =$$

$$\textcircled{7} \frac{1}{2} \cdot \left(\frac{2 \cdot 7^4}{3 \cdot 5} \right)^6 : \left(\frac{2 \cdot 7^6}{3^2 \cdot 5} \right)^4 =$$

$$\textcircled{8} \left(\frac{18x^2y^5}{27z^2} \right)^2 : \left(\frac{10x^2y^3}{15z} \right)^3 =$$

$$\textcircled{9} 25 \cdot \left(\frac{5}{2} \right)^{-2} \cdot (-2^{-3})^{-1} =$$

$$\textcircled{10} \frac{[(-2)^2]^3 \cdot (-4)^{-2}}{(-2)^3 \cdot (-2)^2} =$$

$$\textcircled{11} \left(\frac{xy^2}{3} \right)^{-3} \cdot \left(\frac{x^2y}{4} \right)^2 =$$

$$\textcircled{12} \frac{2x^3y}{x^4y} : \left(\frac{1}{y^2} \cdot \frac{x^3}{y^3} \right) =$$

$$\textcircled{13} (x^{-2}y^5)^{-2} \cdot \left(\frac{x^2}{2y} \right)^{-2} \cdot \left(\frac{2x^2}{y^3} \right)^{-4} =$$

$$\textcircled{14} \left(\frac{1}{2} \right)^{-2} \cdot \left(\frac{2}{x^{-3}} \right)^{-1} \cdot \left(\frac{x^{-2}}{2^{-3}} \right)^{-3}$$

$$\textcircled{15} \left(\frac{a}{2b^{-1}} \right)^{-3} \cdot \left(\frac{4b^{-2}}{3a^{-3}} \right)^{-1} \cdot \left(\frac{a^0b}{3^2 \cdot b^{-2}} \right)^{-2}$$

$$\textcircled{16} \frac{9a^{-3}b^{-2}}{16cd^{-3}} : \frac{8c^{-3}d}{(-3)^3(ab)^2}$$

$$\textcircled{17} \left[\left(\frac{2}{3}x^{-3}y \right)^2 \cdot \left(-\frac{3}{2}xy^2 \right)^{-3} \right] : \left(-\frac{2}{3} \right)^{-2} \cdot x^4 \cdot y$$

$$\textcircled{18} \frac{2^3 \cdot 5^{-2}}{\left(\frac{1}{2} \right)^7 \cdot 25^{-1}} : \frac{\left(\frac{1}{2} \right)^{-5} \cdot 5^{-3}}{2^{-2}}$$

$$\textcircled{19} \left[\frac{a^3b}{3c^2} \cdot \frac{9bc^3}{(3ab)^{-1}} \right] : \frac{(-3)^{-2}ca}{\left(\frac{1}{3} \right)^{-2} b^0}$$

$$\textcircled{20} \left(\frac{x^{-2}y^2z^{-2}}{x^0y^{-8}} \right)^{-2} : \frac{x^2z^3}{x^{-4}y^7}$$

MOCNINY S CELOČÍSELNÝM EXPONENTOM

$$\textcircled{1} -3^3 - (-2)^5 + (-7)^1 + 6^0 + (-4)^2 - 5^2 =$$

$$\textcircled{2} -2^5 - (-3)^3 + 8^0 + (-5)^2 + (-6)^1 - 4^2 =$$

$$\textcircled{3} -6^2 + (-9)^1 + (-3)^3 - (-2)^4 + 4^0 + (-8)^2 =$$

$$\textcircled{4} \left[\left(\frac{3}{4} - \frac{1}{8} \right)^{-1} \cdot \frac{3}{4} \right]^2 \cdot \left[\left(\frac{4}{3} - \frac{1}{2} \right)^{-1} \cdot \frac{2}{3} \right]^{-2} =$$

$$\textcircled{5} \left[\left(\frac{5}{4} - \frac{2}{3} \right)^{-1} \cdot \frac{5}{12} \right]^2 \cdot \left[\left(\frac{3}{4} - \frac{1}{3} \right)^{-1} \cdot \frac{7}{12} \right]^{-2} =$$

$$\textcircled{6} \left[\frac{5^3 \cdot (2 \cdot 3^3)^2}{3 \cdot (2 \cdot 3 \cdot 5)^3} \right]^2 =$$

$$\textcircled{7} \frac{1}{2} \cdot \left(\frac{2 \cdot 7^4}{3 \cdot 5} \right)^6 : \left(\frac{2 \cdot 7^6}{3^2 \cdot 5} \right)^4 =$$

$$\textcircled{8} \left(\frac{18x^2y^5}{27z^2} \right)^2 : \left(\frac{10x^2y^3}{15z} \right)^3 =$$

$$\textcircled{9} 25 \cdot \left(\frac{5}{2} \right)^{-2} \cdot (-2^{-3})^{-1} =$$

$$\textcircled{10} \frac{[(-2)^2]^3 \cdot (-4)^{-2}}{(-2)^3 \cdot (-2)^2} =$$

$$\textcircled{11} \left(\frac{xy^2}{3} \right)^{-3} \cdot \left(\frac{x^2y}{4} \right)^2 =$$

$$\textcircled{12} \frac{2x^3y}{x^4y} : \left(\frac{1}{y^2} \cdot \frac{x^3}{y^3} \right) =$$

$$\textcircled{13} (x^{-2}y^5)^{-2} \cdot \left(\frac{x^2}{2y} \right)^{-2} \cdot \left(\frac{2x^2}{y^3} \right)^{-4} =$$

$$\textcircled{14} \left(\frac{1}{2} \right)^{-2} \cdot \left(\frac{2}{x^{-3}} \right)^{-1} \cdot \left(\frac{x^{-2}}{2^{-3}} \right)^{-3}$$

$$\textcircled{15} \left(\frac{a}{2b^{-1}} \right)^{-3} \cdot \left(\frac{4b^{-2}}{3a^{-3}} \right)^{-1} \cdot \left(\frac{a^0b}{3^2 \cdot b^{-2}} \right)^{-2}$$

$$\textcircled{16} \frac{9a^{-3}b^{-2}}{16cd^{-3}} : \frac{8c^{-3}d}{(-3)^3(ab)^2}$$

$$\textcircled{17} \left[\left(\frac{2}{3}x^{-3}y \right)^2 \cdot \left(-\frac{3}{2}xy^2 \right)^{-3} \right] : \left(-\frac{2}{3} \right)^{-2} \cdot x^4 \cdot y$$

$$\textcircled{18} \frac{2^3 \cdot 5^{-2}}{\left(\frac{1}{2} \right)^7 \cdot 25^{-1}} : \frac{\left(\frac{1}{2} \right)^{-5} \cdot 5^{-3}}{2^{-2}}$$

$$\textcircled{19} \left[\frac{a^3b}{3c^2} \cdot \frac{9bc^3}{(3ab)^{-1}} \right] : \frac{(-3)^{-2}ca}{\left(\frac{1}{3} \right)^{-2} b^0}$$

$$\textcircled{20} \left(\frac{x^{-2}y^2z^{-2}}{x^0y^{-8}} \right)^{-2} : \frac{x^2z^3}{x^{-4}y^7}$$