

Mid. On - 7 Study Guide

① $-(7M)^{-2}$ ② $\frac{5}{5-2}$ ③ $10FQ^{-9}$

$-1(7^{-2}M^{-2})$ $5(5^2)$ $\frac{10F^1M^2}{95}$

$\frac{7^2M^2}{-1}$
 $\frac{-1}{49M^2}$

④ $8M^{-2}$ ⑤ $-X^{-2}$ ⑩ $10X^3Z^0$

$4M^{-8}$ $X=-2$ $X=-2, Z=2$

$\frac{8M}{4M^2}$ $\frac{-1}{(-2)^2}$ $\frac{10(-2)^3(2)^0}{-48}$

$\frac{2M}{M^2}$ $\frac{-1}{4}$ $\frac{2X \cdot 3Z^{-3}}{y^{-4}}$

⑦ $2XY^{-2}Z^2$ ⑧ $\frac{1}{3} \cdot (2y)^6 x^{-3}$ $\frac{10X^2 \cdot 3}{18(4^{-2})}$

$x=2, y=4, z=2$ $\frac{1}{3X^3}$ $\frac{X^1Y^4}{3Z^3}$

⑩ $\frac{3}{3(10)} =$ ⑪ $X^1Y^{-1} \cdot X^4Y \cdot X^4Y^2$ ⑫ $(-7C^3d^4)(4cd^3)$

$\frac{3}{18}$ $\frac{X^2Y^2}{X^2Y^2}$ $-28C^4d^7$

⑬ $(-3)^7 K^5 (-8)^8$ ⑭ $(-28^9)^{-3} (28^9)^{(789)^{-3}}$

$\frac{24^7 \cdot 8^8}{9^4}$ $\frac{-42^9}{9^4}$ ⑮ $(4,895)^{-11} (4,895)^{11}$

$4,895^0 = 1$

$$\textcircled{16} \quad -7xy^{-3}z^3(0)^{-10} \quad \textcircled{17} \quad (a^4)^6(b^5)^{-2} \quad \textcircled{18} \quad (m^2)^8(n^0)^4$$

$$\frac{-7xy^3z^3}{y^3 0^{10}} = \boxed{\text{undefined}}$$

$$\begin{array}{|c|} \hline a^{24} \\ \hline b^{10} \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline m^{16} n^8 \\ \hline m^{16} \\ \hline \end{array}$$

$$\textcircled{19} \quad (mnp)^0 = \boxed{1}$$

$$\textcircled{20} \quad a(a^3b^{-4})^{-2}b^{-3}$$

$$\frac{a(a^3b^8)}{b^3}$$

$$\frac{a^7b^8}{b^3} = \boxed{a^7b^5}$$

$$\textcircled{21} \quad 7f^{11}u^3(-4f^{-9})^2u^{-5}$$

$$7f^{11}u^3(-4)^2f^{18}u^{-5}$$

$$7f^{-7}u^{-2}16$$

$$\boxed{\frac{112}{f^7u^2}}$$