

$$\textcircled{a} 3^0 = 1 \quad x^0 = 1 \quad (4y)^0 = 1 \quad (3st^5)^0 = 1 \quad (s-8+9-7-12)^0 = 1$$

$$\textcircled{p} 4x^0 = 4 \cdot 1 = 4 \quad 8e^0 = 8 \cdot 1 = 8 \quad 10sx^0 = 10s \quad 2 \cdot 1 = 2 \quad \frac{1}{2} \cdot 1 = \frac{1}{2}$$

$$\textcircled{q} (s^2)^3 = s^{2 \cdot 3} = s^6 \quad x^{36} \quad \omega^{20} \quad x^{15}$$

$$\textcircled{r} (x^{21})^3 = x^{21 \cdot 3} = x^{63} \quad y^{100} \quad m^{2/3 \cdot 3/2} = m^1 = m \quad \omega^{312}$$

$$\textcircled{s} (2x^2)^3 = 2x^2 2x^2 2x^2 = 8x^6, \quad 625r^{20}, \quad 243t^{10}, \quad 9x^{24}$$

$$\textcircled{t} 64a^6 b^3 c^3, \quad 81d^{20} e^{20} f^4, \quad 32u^{10} v^{25} u^5 = 32u^{15} v^{25}, \quad 64a^{42} b^{102}$$

$$\textcircled{u} \left(\frac{2}{5}\right)^4 = \frac{2^4}{5^4} = \frac{16}{625}, \quad (2.5)^6 = 244.140625, \quad (.1)^2 (x^8)^2 = 0.01x^{16}, \quad 0.216r^{21}$$

$$\textcircled{v} \left(\frac{3xy^3}{6x^5y^2}\right)^2 = \left(\frac{y}{2x^4}\right)^2 = \frac{y^2}{4x^8} \quad \left(\frac{x^5y^3}{x^5y^2}\right)^3 = y^3$$

$$\left(\frac{5^7 k^1 l^3 10^5 k^3}{16 k^8 l^2 14 k^{10}}\right)^2 = \left(\frac{3^5 k^4 l^3}{14 k^{13} l^2}\right)^2 = \left(\frac{5 l}{2 k^{14}}\right)^2 = \frac{25 l^2}{4 k^{28}}$$

$$\left(\frac{12^2 a^3 4 a^5 b^3}{6 a^8 b^5}\right)^2 = \left(\frac{8 a^8 b^3}{a^8 b^5}\right)^2 = \left(\frac{8}{b^2}\right)^2 = \frac{64}{b^4}$$

$$\textcircled{a} 3d^5 + 2d^5 = 5d^5 \quad 3d^5 2d^5 = 6d^{10} \quad 2x^3 + 2x^5 = 2x^3 + 2x^5 \quad 2x^3 2x^5 = 4x^8$$

$$\textcircled{b} 7e^5 2e^5 = 14e^{10} \quad 7e^5 + 2e^5 = 9e^5 \quad 3u^3 + 2u^5 = 3u^3 + 2u^5 \quad 3u^3 2u^5 = 6u^8$$

$$\textcircled{c} 4s - 7s + 8s^2 = -3s + 8s^2 \quad 4s(-7s)(8s^2) = -224s^4 \quad 7r^4 + 7r^3 = 7r^4 + 7r^3 \quad 7r^4(7r^3) = 49r^7$$

$$\textcircled{d} 3x^2 - (-4x^2) - 8x^2 = -x^2 \quad 3x^2(-4x^2)(-8x^2) = 96x^6 \quad \omega - 6\omega - (-7\omega^2) = -5\omega + 7\omega^2$$

$$\omega(-6\omega)(-7\omega^2) = 42\omega^4$$