

$$1) (5r^2t^4)(2r^6t^5)^3$$

$$2^3 r^{18} t^{15}$$

$$(5r^2t^4) 8 r^{18} t^{15}$$

$$\textcircled{40 r^{20} t^{19}}$$

$$2) 10x^3y^2 + 4x^3y^2$$

$$\textcircled{14x^3y^2}$$

$$3) \frac{728v^8w^4}{14v^7w^{10}}$$

$$\textcircled{\frac{7}{v^2w^6}}$$

$$4) x^5 \cdot x^3 \cdot x^7$$

$$x^{5+3+7} = \textcircled{x^{15}}$$

$$5) \left(\frac{x^{12}y^4}{x^8y^6z^3} \right)^2$$

$$\left(\frac{x^4y^2}{y^5z^3} \right)^2$$

$$\textcircled{\frac{x^8}{y^{10}z^6}}$$

$$6) (4a^5b^2)(-3a^8b^9)$$

$$\textcircled{-12a^{13}b^{11}}$$

$$7) \frac{(q^2r^7)^3}{q^9r^{11}}$$

$$\frac{q^6r^{21}}{q^9r^{11}}$$

$$\textcircled{\frac{r^{10}}{q^3}}$$

$$8) 2x^3y^5(4xy^2)(5x^7y^3)$$

$$9) \left(\frac{20xy^9z}{12x^7y^{12}} \right)^2$$

$$10) (-3k^5m^8)^2$$

$$11) 7^4 \cdot 7^2 \cdot 7^3$$

$$12) 12x^5y^3 - 2x^5y^3$$

$$13) \frac{21v^3w^{14}}{35v^{10}w^{12}}$$

$$14a) (-5)^3(-5)^8$$

$$14b) (-5)^4(-5)^8$$

$$15) (-4ab^3)(5a^7b^{10})$$

$$16) \frac{(t^3u^8)^2}{t^7u^{12}}$$

$$17) 7ab^4 - 10ab^4$$

$$18) \left(\frac{x^7y^7}{x^2yz^6} \right)^3$$