1. $\frac{r^3t^{-7}}{t^5}$ $\frac{r^3}{t^{12}}$

2. $\left(\frac{a^3}{m}\right)^{-4}$ $\frac{m^4}{a^{12}}$

3. $\frac{t^{-8}m^2}{m^{-3}}$ $\frac{m^5}{t^8}$

4. $c^3v^9c^{-1}c^0$ c^2v^9

5. $h^2k^{-5}d^3k^2$ $\frac{h^2d^3}{k^3}$

6. $9y^4j^2y^{-9}$ $\frac{9j^2}{y^5}$

7. $(w^2k^0p^{-5})^{-7}$ $\frac{p^{35}}{w^{14}}$

8. $2y^{-9}h^2(2y^0h^{-4})^{-6}$ $\frac{h^{26}}{32y^9}$

9. $(1.2)^5(1.2)^{-2}$ 1.728

10. $(-3q^{-1})^3q^2$ $-\frac{27}{q}$

18) $-\frac{3}{4}$

19) $\frac{1}{36}$

5. $h^2k^{-5}d^3k^2$

$h^2 k^{-3} d^3$

$$\frac{h^2 d^3}{k^3}$$

10. $(-3q^{-1})^3 q^2$

8. $2y^{-9}h^{2}(2y^{0}h^{-4})^{-6}$

$(2y^{0}h^{-4})\,(2y^{0}h^{-4})\,(2y^{0}h^{-4})\,(2y^{0}h^{-4})\,(2y^{0}h^{-4})\,(2y^{0}h^{-4})$

7. $(w^{2}k^{0}p^{-5})^{-7}$

4. $c^3 v^9 c^{-1} c^0$

$c^2 v^9$

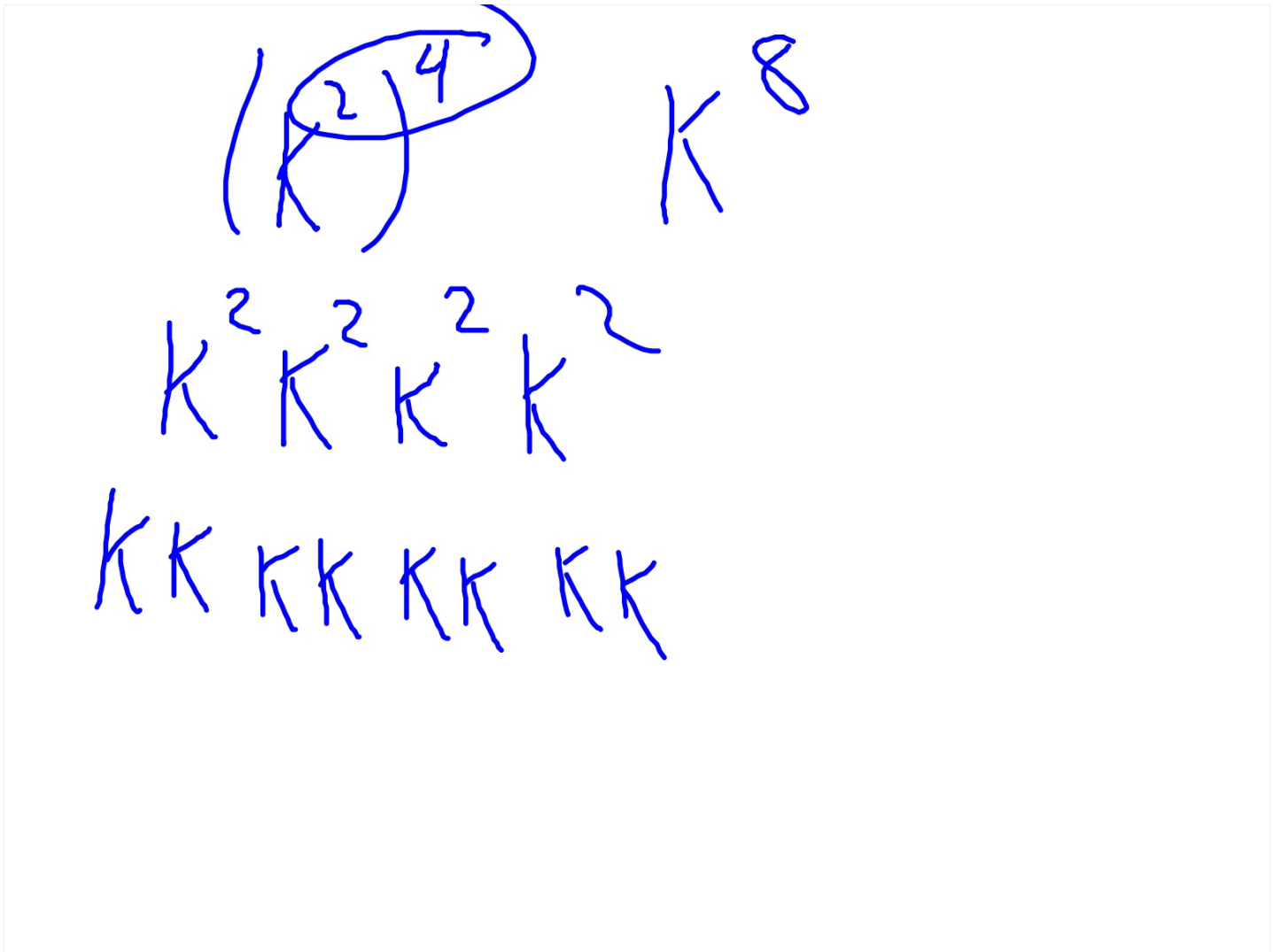
$$(1.2)^{5}(1.2)^{-2}$$

$$1.2^{3}$$

$$1.2 \times 1.2 \times 1.2$$

$(4)^2$ $(4)^{-2}$

16 $\frac{1}{4^2} = \frac{1}{16}$


(K^2)^4
K^8
K^2 K^2 K^2 K^2
KK KK KK KK

$$\left(\frac{3x}{2}\right)^4 = \left(\frac{3x}{2}\right)\left(\frac{3x}{2}\right)\left(\frac{3x}{2}\right)\left(\frac{3x}{2}\right) = \frac{81x^4}{16}$$

$a^5 \cdot 3b^9 \cdot 6a$

$18a^6b^9$

$(x^9)^2 (x^7)^5$

$x^{18} \cdot x^{35} = x^{53}$

$\frac{x^{12}}{x^3} = x^9$

$\frac{x^3}{x^{12}} = x^{-9}$

$= \frac{1}{x^9}$