

$$9. - (-13)^{\circ} + 6^{\circ} - 12^{\circ} + (12)^{\circ}$$

$$= -(1) + 1 - 1 + 1$$

$$= -1 + 1 - 1 + 1$$

$$= 0$$

$$10. (5^{3})(4^{3})$$

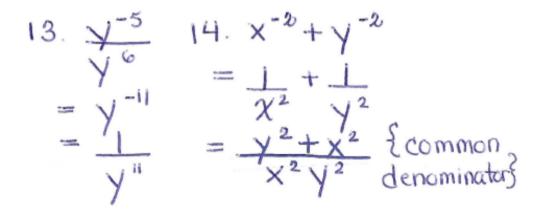
$$(10^{2})(2^{2})(3^{1})$$

$$= (125)(6^{4})$$

$$(100)(4)(3)$$

$$= \frac{8000}{3}$$

$$\begin{array}{rcl} 11. \ \underline{1} \\ 5^{-2} \\ = 5^{2} \\ = 25 \\ \end{array} \begin{array}{r} 12. \ \underline{\chi^{-5}} \\ W^{4} \\ \chi^{-6} \\ W^{4} \\ \chi^{-6} \\ \\ \underline{\chi^{6}} \\ W^{4} \\ \chi^{-5} \\ W^{4} \\ \underline{\chi^{5}} \end{array}$$



15. $(X+Y)^{2}$ 16. (X+Y3 x4 (x+y)(x+y)(x+y) (x2+2xy+y2) · X 4 $x^{3} + x^{2}y + 2x^{2}y + 2xy^{2} + xy^{2} + y^{3}$ -2 $\frac{2}{5}$ 17 X3+3x2y+3x 2 52 - $\frac{5}{2^{2}}$ -= <u>25</u>

$$\begin{array}{rcl}
19. & \frac{6^{-1}+6^{2}}{6^{-1}-6^{2}} & 20. & \left(\frac{a^{-2}}{b^{-3}}\right)^{-4} \\
&= \underline{1}+36 & = \frac{a^{8}}{b^{12}} \\
&= \underline{1}+36 & = \frac{a^{8}}{b^{12}} \\
&= \underline{1}+36 & 21. & \left(\frac{2m^{2}}{n^{3}}\right)^{-2} \\
&= \underline{1}+316 & = \left(\frac{n^{3}}{2m^{2}}\right)^{2} \\
&= \frac{n^{6}}{4m^{4}} \\
&= 317 & 4m^{4} \\
&= -315 \\
&= -317 \\
&= -315 \\
\end{array}$$

$$22 - \frac{34 \times ^{-4} \times ^{5}}{2 \times ^{5} \times ^{-7} z^{2}} = -6 \times ^{-3} \times ^{-7} (2 \times ^{-4} \times ^{-2})$$

$$= -\frac{34 \times ^{5} \times ^{7} z^{2}}{2 \times ^{5} \times ^{4} z^{2}} = -6 \times ^{3} \times ^{7}$$

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$$= -\frac{17 \times ^{12}}{2 \times ^{5} \times ^{4} z^{2}} = -6 \times ^{3} \times ^{7}$$

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$$= -\frac{17 \times ^{12}}{2 \times ^{5} \times ^{7} z^{2}} = -6 \times ^{3} \times ^{7}$$

$$= -\frac{1}{2 \times ^{5} \times ^{7} z^{2}} = -6 \times ^{3} \times ^{7}$$

$$= -\frac{17 \times ^{12}}{2 \times ^{5} \times ^{7} z^{2}} = -6 \times ^{3} \times ^{7}$$

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$$= -\frac{1}{2 \times ^{7} \times ^{7}$$

$$27. \left(\frac{4x^{-3}y^{4}}{8x^{2}y^{-2}}\right)^{-2} 28. \left(\frac{6}{x^{0}+y^{0}}\right) 29. \left(\frac{-12x^{-7}y^{2}}{36x^{9}y^{-5}z^{5}}\right) = \frac{6}{1+1} = \frac{-12y^{2}y^{5}}{36x^{7}x^{9}z^{5}} = \frac{6}{1+1} = \frac{-12y^{2}y^{5}}{36x^{7}x^{9}z^{5}} = \frac{6}{2} = \frac{-12y^{2}y^{5}}{36x^{7}x^{9}z^{5}} = \frac{6}{2} = \frac{-12y^{2}y^{5}}{36x^{7}x^{9}z^{5}} = \frac{6}{2} = \frac{-12y^{2}y^{5}}{36x^{7}x^{9}z^{5}} = \frac{-12y^{7}}{3x^{10}z^{5}} = \frac{-12y^{7$$