Whiteboard Practice - Review for Test


| $8^{2} \times 8 \times 8^{2}$ | $8^{5}$ | 32,768 |
| :---: | :---: | :---: |
| $\frac{(-4)^{5}(-4)^{4}}{(-4)^{2}(-4)^{2}} \frac{(-4)^{2}}{(-4)^{4}}$ | $(-4)^{-4}$ | -4 |



Evaluate: $\left\{7 a^{2}-4 b^{3}\right\}$
a) if $a=4 \quad b=2$
b) if $a=-5 \quad b=3$

$$
\begin{gathered}
7 a^{2}-4 b^{3} \\
* 7(4)^{2}-4(2)^{3} \\
7(16)-4(8)
\end{gathered}
$$

$$
7(-5)^{2}-4(3)^{3}
$$

$$
7(25)-4(27)
$$

$$
175-108
$$

$$
\begin{aligned}
& 7(16)-4(8)=80 \\
& 112-32=8
\end{aligned}
$$

c) if $a=5 \quad b=(-3)$

$$
\begin{aligned}
& 7(a)^{2}-4(b)^{3} \\
& 7(5)^{2}-4(-3)^{3} \\
& 7 / 751-111-771
\end{aligned}
$$

$$
\begin{align*}
& 7(25)-4(-27) \\
& 175+108 \tag{283}
\end{align*}
$$

Solve with an equation: $t$
a) the square of the sum of seven and eight

$$
(7+8)^{2}=15^{2}=225
$$

b) the cube of the sum of negative 2 and negative 3 .

$$
[(-2)+(-3)]^{3}=(-5)^{3}=-125
$$

c) The (square of the sum of 5 and 2 is decreased by 12 .

$$
(5+2)^{2}-12
$$

d) The cube of the sum of
d) The cube of the sum of ( 5 and 2 ) is added to the (square of the sum of 3 and 4 .)

$$
\begin{aligned}
& (5+2)^{3}+(3+4)^{2} \\
& 7^{3}+7^{2} \\
& 343+49=392
\end{aligned}
$$

