Group Quiz 6 Chapter 3
Please Show all of your steps clearly for credit.
Also, get in the habit of checking on the caculator.

1. Simplify: $\left(-3 x^{2} y^{3}\right)^{2}\left(-2 x^{5} y^{2}\right)^{3}$
2. Simplify: $\left(\frac{7 b^{4} c^{-5}}{14 b^{7} c^{-2}}\right)^{4}$
3. Simplify: $\frac{\left(16 b^{-2} c\right)\left(25 b^{4} c^{-5}\right)}{\left(15 b^{5} c^{-1}\right)\left(8 b^{-7} c^{-2}\right)}$
4. Simplify each expression. Assume $b$ and $c$ are positive.
(a) $4\left(25 b^{8} c^{14}\right)^{-1 / 2}$
(b) $b^{2 / 7} b^{-16 / 7}$
(c) $\left(\frac{9 b^{3} c^{-2}}{25 b^{-5} c^{2}}\right)^{1 / 2}$
