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$\qquad$

For the following questions, please show work as to how you came up with your answers.

Simplify.

1. $\frac{5^{6}}{5^{2}}$
2. $\frac{3^{17}}{3^{19}}$
3. $7^{0}$
4. $\frac{4^{5} \cdot 4^{8}}{4^{2} \cdot 4 \cdot 4^{4}}$
5. $\frac{y^{25}}{y^{12}}$
6. $\frac{h^{7}}{h^{15}}$
7. $0^{0}$
8. $\frac{2^{-6} \cdot 2 \cdot 2^{4}}{2^{0} \cdot 2^{7} \cdot 2^{-10}}$
