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Quiz 1

1. All the following sequences converge to 0 as $n \to \infty$. Order them according to their rate of convergence for slowest to fastest.

$$\left\{ \frac{1}{2^{n^2}} \right\} \qquad \left\{ \frac{1}{2^n} \right\} \qquad \left\{ \frac{1}{n} \right\} \qquad \left\{ \frac{1}{2^{2^n}} \right\}$$