Goal: Know and love each of these functions, their Taylor series representations, and the interval of convergence.

- 1. $e^x =$
- $2. \sin(x) =$
- $3. \cos(x) =$
- 4. $\arctan(x) =$
- 5. $\frac{1}{1-x} =$
- 6. $\ln(1+x) =$
- 7. $(1+x)^k =$