MATH 2A/5A Prep: Exponents and Radicals

- 1. Expand the expression $(\sqrt{x}+1)^3$
- 2. Function f(x) is defined by $f(x) = 2^{x^2} \cdot 4^{-x}$, find f(3).
- 3. Simplify the expression $\frac{2^{x^2}}{4^x}$.
- 4. Simplify the expression $(\sqrt{x+1} \sqrt{x})^2$
- 5. Simplify the number $9^{\frac{1}{4}}\sqrt{6} \sqrt{8}$