Warm-Up, June 27

Let $f(x) = \sqrt{x + 2}$ and $g(x) = x + 1$.

1. Compute $f \circ g(x)$ and $g \circ f(x)$.

2. State the Domain and Range for both $f \circ g$ and $g \circ f$.

3. Sketch the graphs of both $f \circ g$ and $g \circ f$.

4. Give a few (three maybe?) reasons why $f \circ g \neq g \circ f$.