

Lecture Handout #06: Sep 15

Composites of Functions

Given $f(x) = \underline{\hspace{2cm} x^2 \hspace{2cm}}$ and $g(x) = \underline{\hspace{4cm}}$,

$(g \circ f)(x) = \underline{\hspace{4cm}}$

$(f \circ g)(x) = \underline{\hspace{4cm}}$

Are these functions the same?

Decomposing Complicated Functions

Write $H(x) = \underline{\hspace{4cm}}$ as $(g \circ f)(x)$, where

$g(x) = \underline{\hspace{4cm}}$

$f(x) = \underline{\hspace{4cm}}$

Shifting, Scaling, and Reflecting Graphs

Below is the graph of a function $f(x)$. Sketch the graphs of the other related functions.

