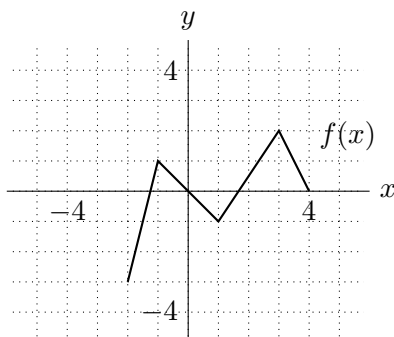
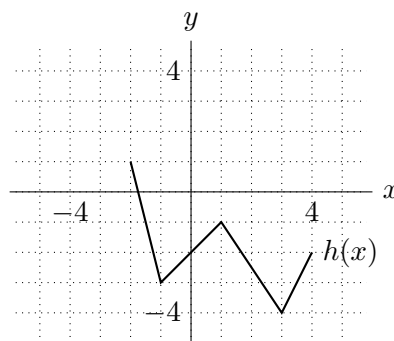
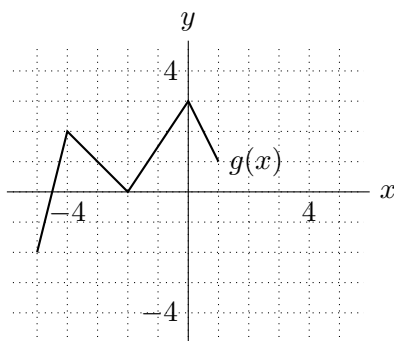


7. [15 points] The graph of a function $f(x)$ is shown below. The domain of $f(x)$ is $-2 \leq x \leq 4$.



You do not need to show work on this page.

a. [6 points] Each of the functions $g(x)$ and $h(x)$ shown below is a transformation of the function $f(x)$. Write a formula for each function in terms of $f(x)$.



$g(x) =$ _____ $h(x) =$ _____

b. [4 points] Determine the domain and range of the function $j(x) = -2f(x - 6) + 3$.

Domain: _____ $\leq x \leq$ _____ Range: _____ $\leq y \leq$ _____

c. [5 points] On the axes below, draw a graph of the derivative of $f(x)$.

