## Derivatives of Inverse Functions

1. If $m(x)$ is the inverse of $f(x)$, then $m^{\prime}(x)=$ ?
2. Let $h$ and $g$ be functions that are differentiable everywhere. If $g$ is the inverse function of $h$ and if $g(-3)=5$ and $h^{\prime}(5)=-\frac{3}{2}$, then $g^{\prime}(-3)=$ $\qquad$ ?
