For each of these functions, fill in the blank with the derivative if you can do so using the rules we have learned so far in this class, possibly after an algebraic manipulation of the expression. Otherwise, write "Can't do yet."
Let $f(x)=x^{2}-3 x+4 . \quad f^{\prime}(x)=$

Let $y=x^{-3}-1 . \quad \frac{d y}{d x}=$
$\frac{d}{d x}\left(x^{\frac{1}{2}}-2 x+1\right)=$

Let $f(x)=x^{2}+x-4$.
$f^{\prime}(3)=$

Let $f(x)=\frac{x^{2}-1}{x}$
$f^{\prime}(x)=$

Let $f(x)=\frac{x}{x^{2}-1} . \quad f^{\prime}(x)=$
$\frac{d}{d x}\left(\sqrt{x}\left(x^{2}-1\right)\right)=$
$\frac{d}{d x}\left(\frac{\sqrt{x}}{x^{2}-1}\right)=$

