Find the derivative of each function.

1. $f(x)=\cos (x)-\sin (x)+\cos (4)$
2. $f(x)=\cos (x) \sin (x)$
3. $f(x)=\cos \left(x^{3}\right)$
4. $f(x)=\tan (x)^{3}$
5. $f(x)=\sin \left(x^{2}+4 x-1\right)^{3}$
6. $f(x)=\sec (x)$

Hint: $\sec (x)=\frac{1}{\cos (x)}$

