**12C General Rules**

1. Find $f^{'}\left(x\right)$ for each of the expressions for $f(x)$ to the right.
2. $f\left(x\right)=x^{6}$
3. $f\left(x\right)=x^{\frac{1}{2}}$
4. $f\left(x\right)=x^{-2}$
5. $f\left(x\right)=x^{2}×x^{3}$
6. $f\left(x\right)=\frac{x}{x^{5}}$
7. $f\left(x\right)=7x^{3}$
8. $f\left(x\right)=-4x^{\frac{1}{2}}$
9. $f\left(x\right)=\sqrt{36x^{3}}$