AP Calculitis Derivatives Review Worksheet .
nd the derivative of each function. Express final answer in simplified factored form and box your answers. Complete on a separate sheet of paper. Final answers should not have negative exponents!

1. $f(x)=\frac{-2}{x^{2}+1}$
2. $f(x)=x^{2}-\frac{1}{2 x}$
3. $f(x)=\frac{2 x^{2}+3 x+4}{(x-2)^{2}}$
4. $f(x)=\cos \left(\sqrt{1-x^{2}}\right)$
5. $f(x)=\cot \left(\frac{1}{x}\right)$
6. $f(x)=\cos (2)$
7. $f(x)=3 \sin (x)-5 \cot (x)$
$4 f(x)=x-\sin (2 x)$
8. $f(x)=\sqrt{\sin (x)}$
9. $f(x)=\tan ^{3}(4 x)$
10. $f(x)=\cos (\cos (x))+\sin ^{2}(x)$
11. $f(x)=\sec (x) \tan ^{3}(x)$
