## Quiz Review

Please do on separate paper.

Use Limit Definition of Derivatives to find the derivative for \#1-4.

1. $f(x)=3 x+7$
2. $g(x)=x^{2}-3 x-10$
3. $h(x)=\sqrt{4 x-3}$
4. $f(x)=\frac{2}{x-6}$

Find the equation of the tangent line to at $x=4$ for $\# 5-6$. Write the line in slope intercept form.
5. $f(x)=3 x^{3}-4 x+2 x^{2}$
6. $g(x)=-\frac{x^{4}}{2}-8 \sqrt{x}$

Find the derivative of the function at $x=-2$ for \#7.
7. $h(x)=\frac{-3}{x^{2}}-\frac{4}{x^{4}}+3 x^{\frac{5}{3}}$

