

Name_____ **No Calculators. Present neatly. Score**_____.

Use the limit definition to find the derivative function $f'(x)$ of the function

$f(x) = \frac{3}{\sqrt{1-x}}$. Use the result to find the equation of a tangent line to the graph of

$f(x)$ at $x = -8$.

Your work:

Name_____ **No Calculators. Present neatly. Score**_____.

Use the limit definition to find the derivative function $f'(x)$ of the function

$f(x) = \frac{4}{\sqrt{x-4}}$. Use the result to find the equation of a tangent line to the graph of $f(x)$ at $x = 20$.

Your work: