

Quiz #9

Name: Key

You must show your work to get full credit.

- 1 pt (1) Use your calculator to compute $f'(-1.5)$ where $f(x) = \frac{3^{x+2}}{2x+1}$.

$$f'(-1.5) = \underline{-1.81745}$$

- (2) What did you type into the calculator in the last problem:

1 pt n Deriv (3^(X+2)/(2X+1), X, -1.5)

- (3) A function g satisfies

- $g'(x) > 0$ for $-1 < x < 2$ and $5 < x$. \nearrow i.e. increasing
- $g'(x) < 0$ for $x < -1$ and $2 < x < 5$. \searrow i.e. decreasing

Draw a graph of such a function.

