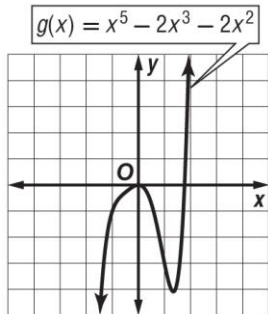


1-4 QUIZ

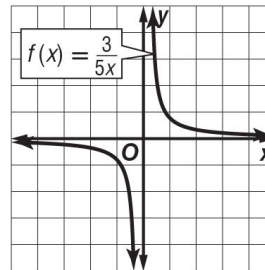
Extrema and Average Rates of Change

Use the graph of each function to estimate intervals to the nearest 0.5 unit on which the function is increasing, decreasing, or constant. Support the answer numerically.

1.

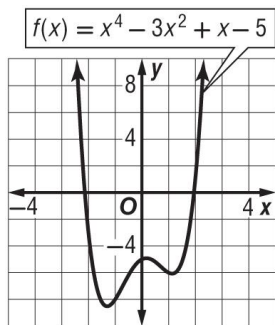


2.

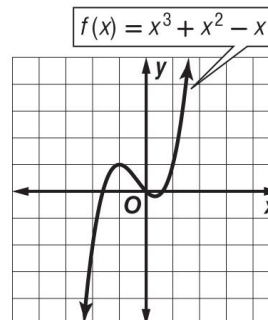


Estimate to the nearest 0.5 unit and classify the extrema for the graph of each function. Support the answers numerically.

3.



4.



5. **PHYSICS** The height t seconds after a toy rocket is launched straight up can be modeled by the function $h(t) = -16t^2 + 32t + 0.5$, where $h(t)$ is in feet. Find the maximum height of the rocket.