Team Quiz LT11

TQ LT11

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LT11: I can use the first and second derivative of a function to identify intervals of increase/decrease and concavity.

1. Analyze the graph of $f'(x)$, the first derivative of $f$, and then list
   a. Intervals where $f$ is increasing
   $(-2, 0)$ $(1, \infty)$
   b. Intervals where $f$ is decreasing
   $(-\infty, -2)$ $(0, 1)$
   c. Intervals where $f$ is concave up
   $(-\infty, -1.8)$ $(-1, -0.25)$ $(0.5, \infty)$
   d. Intervals where $f$ is concave down
   $(-1.8, -1)$ $(0.25, 0.5)$