5. [7 points] A portion of the graph of the function $f(x)$ is shown below. Note that $f(x)$ is linear for $x > 3$.

![Graph of $f(x)$]  

a. [4 points] Let the quantities I–V be defined as follows:

I. The number 0.

II. $\frac{f(-5) - f(2)}{-5 - 2}$.

III. $f'(-5)$.

IV. The slope of the secant line between the points on the graph at $x = -3$ and $x = 5$.

V. The slope of the tangent line at $x = 4$.

Rank the quantities in order from least to greatest by filling in the blanks below with the options I–V. You do not need to show your work.

_______ < _______ < _______ < _______ < _______

b. [3 points] There are four graphs below. Circle the one graph that could be the graph of the derivative of $f(x)$. Note that the graphs are not all drawn at the same scale.

![Graphs I, II, III, IV]