3. (8 points) The graph of a function \( f \) is shown below.

Using the information given, write the following numbers in order from least to greatest:

\[
A = f'(1), \quad \text{slope at } x = 1 \approx 2
\]

\[
B = \int_{-3}^{0} f(t) \, dt, \quad = -\text{Red} - \text{Green} + \text{Yellow} \approx -1.75
\]

\[
C = \int_{-2}^{1} f(t+1) \, dt, \quad = -\text{Green} + \text{Yellow} + \text{Blue} \approx 3.5
\]

\[
D = \int_{-1}^{2} (f(t)+1) \, dt = \int_{-1}^{2} f(t) \, dt + \int_{-1}^{2} 1 \, dt
\]

\[
\approx \frac{3.5}{3} + 3 = 6.5
\]

\[
\frac{B}{B} < \frac{A}{A} < \frac{C}{C} < \frac{D}{D}
\]

**in general:**

\[
\int_{a}^{b} f(t+c) \, dt = \int_{a+c}^{b+c} f(t) \, dt
\]