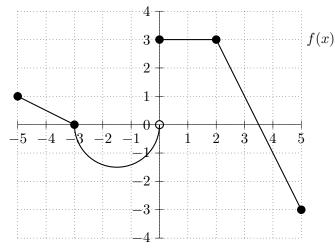
2. [15 points] Below is a graph of the function f(x), comprised of line segments and a semicircle. Let F(x) be an anti-derivative of f(x) with F(2) = 3.



a. [4 points] Find both coordinates of the points where F(x) attains its maximum and minimum values on the interval $-5 \le x \le 5$. No explanation is necessary.

$$Min:(_ 0 _, _ -3 _) Max: (_ 3.5 _, _ 5.25 _)$$

b. [4 points] Find all values of x where F(x) is concave down. Write your answer in the space provided. No explanation is necessary.

-5 < x < -1.5 and 2 < x < 5

c. [7 points] Carefully sketch a graph of F(x) on the axes provided below. Be sure to clearly indicate continuity and differentiability in your graph.

