

For full credit, you must show all work and circle your final answer.

- 1 Solve the inequality and graph the solution set.
 $x^2 - 2x < 8$

- 2 Solve the system of equations and list the solution points:
 $x^2 + 2x + y = 0$ and $y - x - 2 = 0$

- 3 Calculate $f(x)$ for $x = -2, -1, 0, 1, 2$ and draw a rough sketch of the graph:
 $f(x) = 5^x$