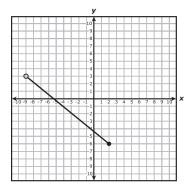
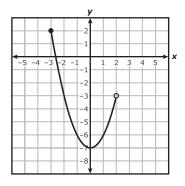
Retake

Domain & Range

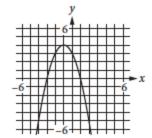
80 Level

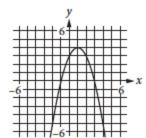
Write the domain and range in brackets for each graph. Explain.

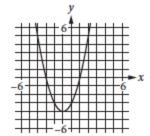


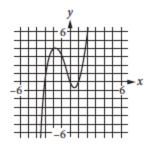


The range of the polynomial function f is the set of real numbers less than or equal to 4. If the x-intercepts of f are -3 and 1, which of the following could be the graph of y = f(x) in the xy-plane? **Explain.**





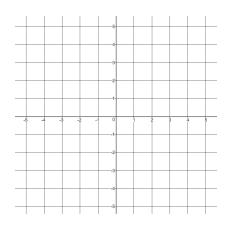




90 Level

Create a **quadratic** graph that satisfies the following requirements. **Explain.**

Domain: $-3 \le x \le 2$ **Range:** $0 \le y \le 4$

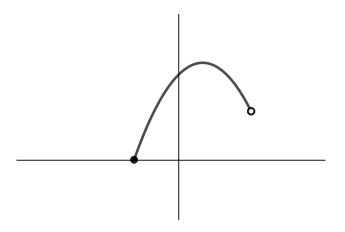


The domain and range of the graph can be represented by the following inequalities:

$$a \leq x < b \qquad \text{and} \qquad c \leq y \leq d.$$

Which of the following must be true? Explain.

- $\mathbf{A)} \quad \mathbf{ab} = \mathbf{cd}$
- **B)** cd > ab
- C) $a+b \ge c+d$
- **D**) $ab \ge cd$



100 Level

Create 3 graphs that all have the same domain. Explain.

