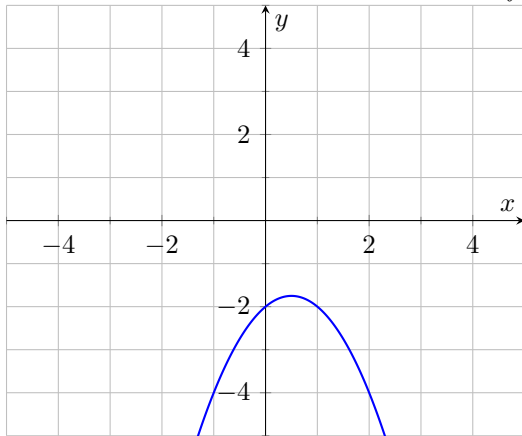
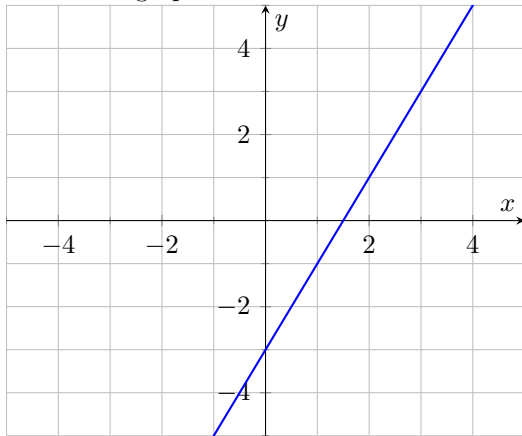


1. Find the interval on which the function $f(x)$ graphed below is decreasing.



- A. The function $f(x)$ is decreasing on $(0.5, \infty)$.
- B. The function $f(x)$ is decreasing on $(-\infty, -3) \cup (1, \infty)$
- C. The function $f(x)$ is decreasing on $(-\infty, 1) \cup (-3, \infty)$
- D. The function $f(x)$ is decreasing on $(-\infty, -0.5)$.
- E. The function $f(x)$ is decreasing on $(1, -3)$
- F. The function $f(x)$ is decreasing on $(-\infty, 0.5)$.
- G. The function $f(x)$ is decreasing on $(-3, 1)$
- H. The function $f(x)$ is decreasing on $(-0.5, \infty)$.

2. Use the graph of the linear function to find interval(s) where the function negative.



- A. The function $f(x)$ is negative on $(-3, \infty)$
- B. The function $f(x)$ is negative on \mathbb{R}
- C. The function $f(x)$ is negative on $(-\infty, -3)$
- D. The function $f(x)$ is negative on \emptyset
- E. The function $f(x)$ is negative on $(-\infty, 1.5)$
- F. The function $f(x)$ is negative on $(1.5, \infty)$
- G. The function $f(x)$ is negative on $(-\infty, 1.5) \cup (-3, \infty)$
- H. The function $f(x)$ is negative on $(-\infty, -3) \cup (1.5, \infty)$

3. Find the interval on which the function $f(x) = -x^2 - 2x + 3$ is positive.

- A. The function $f(x)$ is positive on $(-3, 3)$.
- B. The function $f(x)$ is positive on $(-\infty, -3) \cup (-1, \infty)$.
- C. The function $f(x)$ is positive on $(-\infty, 3) \cup (-1, \infty)$.
- D. The function $f(x)$ is positive on $(3, -3)$.
- E. The function $f(x)$ is positive on $(-3, 1)$.
- F. The function $f(x)$ is positive on $(-1, 1)$.
- G. The function $f(x)$ is positive on $(-\infty, -3) \cup (1, \infty)$.
- H. The function $f(x)$ is positive on $(-\infty, 3) \cup (1, \infty)$.

4. Use the graph of the linear function to find interval(s) where the function $f(x) = 2x - 1$ is negative.

- A. The function $f(x)$ is negative on $(-\infty, 0.5)$
- B. The function $f(x)$ is negative on \mathbb{R}
- C. The function $f(x)$ is negative on $(0.5, \infty)$
- D. The function $f(x)$ is negative on $(-\infty, -1) \cup (0.5, \infty)$
- E. The function $f(x)$ is negative on $(-\infty, 0.5) \cup (-1, \infty)$
- F. The function $f(x)$ is negative on $(-1, \infty)$
- G. The function $f(x)$ is negative on $(-\infty, -1)$
- H. The function $f(x)$ is negative on \emptyset

5. Find interval(s) on which the function $f(x) = 0.5x^2 + 3x + 1$ is decreasing.

- A. The function $f(x)$ is decreasing on $(3, \infty)$.
- B. The function $f(x)$ is decreasing on $(-5, -1)$
- C. The function $f(x)$ is decreasing on $(-1, -5)$
- D. The function $f(x)$ is decreasing on $(-\infty, 3)$.
- E. The function $f(x)$ is decreasing on $(-\infty, -1) \cup (-5, \infty)$
- F. The function $f(x)$ is decreasing on $(-\infty, -5) \cup (-1, \infty)$
- G. The function $f(x)$ is decreasing on $(-\infty, -3)$.
- H. The function $f(x)$ is decreasing on $(-3, \infty)$.

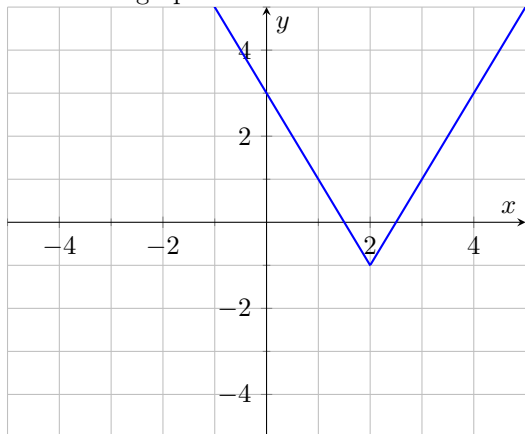
6. Find the interval(s) where the absolute value function $f(x) = -2|x + 1| + 1$ is positive.

- A. The function $f(x)$ is positive on $(-\infty, -0.5) \cup (-1.5, \infty)$
- B. The function $f(x)$ is positive on $(-0.5, 0) \cup (-1.5, 0)$
- C. The function $f(x)$ is positive on $(-0.5, -1.5)$
- D. The function $f(x)$ is positive on $(0, -0.5) \cup (0, -1.5)$
- E. The function $f(x)$ is positive on \mathbb{R} .
- F. The function $f(x)$ is positive on $(-1.5, -0.5)$
- G. The function $f(x)$ is positive on $(0, -1)$.
- H. The function $f(x)$ is positive on $(-\infty, -1.5) \cup (-0.5, \infty)$

7. Find the interval(s) where the absolute value function $f(x) = 2|x - 2| - 2$ is negative.

- A. The function $f(x)$ is negative on $(3, 1)$
- B. The function $f(x)$ is negative on $(0, 3) \cup (0, 1)$
- C. The function $f(x)$ is negative on $(0, 2)$.
- D. The function $f(x)$ is negative on $(3, 0) \cup (1, 0)$
- E. The function $f(x)$ is negative on $(1, 3)$
- F. The function $f(x)$ is negative on \mathbb{R} .
- G. The function $f(x)$ is negative on $(-\infty, 1) \cup (3, \infty)$
- H. The function $f(x)$ is negative on $(-\infty, 3) \cup (1, \infty)$

8. Use the graph of the absolute value function to find intervals where the function positive.



- A. The function $f(x)$ is positive on $(2.5, 0) \cup (1.5, 0)$
- B. The function $f(x)$ is positive on $(1.5, 2.5)$
- C. The function $f(x)$ is positive on $(-\infty, 1.5) \cup (2.5, \infty)$
- D. The function $f(x)$ is positive on $(0, 2.5) \cup (0, 1.5)$
- E. The function $f(x)$ is positive on \mathbb{R} .
- F. The function $f(x)$ is positive on $(2.5, 1.5)$
- G. The function $f(x)$ is positive on $(-\infty, 2.5) \cup (1.5, \infty)$
- H. The function $f(x)$ is positive on $(0, 3)$.