

In Exercises 23–26, describe the set as a union of finite or infinite intervals.

23. $\{x : |x - 4| > 2\}$

SOLUTION $|x - 4| > 2$ or $x - 4 < -2 \Rightarrow x > 6$ or $x < 2 \Rightarrow (-\infty, 2) \cup (6, \infty)$

25. $\{x : |x^2 - 1| > 2\}$

SOLUTION $x^2 - 1 > 2$ or $x^2 - 1 < -2 \Rightarrow x^2 > 3$ or $x^2 < -1$ (this will never happen) $\Rightarrow x > \sqrt{3}$ or $x < -\sqrt{3} \Rightarrow (-\infty, -\sqrt{3}) \cup (\sqrt{3}, \infty)$

27. Match (a)–(f) with (i)–(vi).

(a) $a > 3$

(b) $|a - 5| < \frac{1}{2}$

(c) $|a - \frac{1}{2}| < 5$

(d) $|a| > 5$

(e) $|a - 4| < 3$

(f) $1 \leq a \leq 5$

(i) a lies to the right of 3.

(ii) a lies between 1 and 7.

(iii) The distance from a to 5 is less than $\frac{1}{2}$.

(iv) The distance from a to 3 is at most 2.

(v) a is less than 5 units from $\frac{1}{2}$.

(vi) a lies either to the left of -5 or to the right of 5.

SOLUTION

(a) On the number line, numbers greater than 3 appear to the right; hence, $a > 3$ is equivalent to the numbers to the right of 3: (i).

(b) $|a - 5|$ measures the distance from a to 5; hence, $|a - 5| < \frac{1}{2}$ is satisfied by those numbers less than $\frac{1}{2}$ of a unit from 5: (iii).

(c) $|a - \frac{1}{2}|$ measures the distance from a to $\frac{1}{2}$; hence, $|a - \frac{1}{2}| < 5$ is satisfied by those numbers less than 5 units from $\frac{1}{2}$: (v).

(d) The inequality $|a| > 5$ is equivalent to $a > 5$ or $a < -5$; that is, either a lies to the right of 5 or to the left of -5 : (vi).

(e) The interval described by the inequality $|a - 4| < 3$ has a center at 4 and a radius of 3; that is, the interval consists of those numbers between 1 and 7: (ii).

(f) The interval described by the inequality $1 < a < 5$ has a center at 3 and a radius of 2; that is, the interval consists of those numbers less than 2 units from 3: (iv).

29. Describe $\{x : x^2 + 2x < 3\}$ as an interval. *Hint:* Plot $y = x^2 + 2x - 3$.

SOLUTION The inequality $x^2 + 2x < 3$ is equivalent to $x^2 + 2x - 3 < 0$. The graph of $y = x^2 + 2x - 3$ is shown here. From this graph, it follows that $x^2 + 2x - 3 < 0$ for $-3 < x < 1$. Thus, the set $\{x : x^2 + 2x < 3\}$ is equivalent to the interval $(-3, 1)$.



31. Show that if $a > b$, and $a, b \neq 0$, then $b^{-1} > a^{-1}$, provided that a and b have the same sign. What happens if $a > 0$ and $b < 0$?

SOLUTION Case 1a: If a and b are both positive, then $a > b \Rightarrow 1 > \frac{b}{a} \Rightarrow \frac{1}{a} > \frac{1}{b}$.

Case 1b: If a and b are both negative, then $a > b \Rightarrow 1 < \frac{b}{a}$ (since a is negative) $\Rightarrow \frac{1}{a} > \frac{1}{b}$ (again, since b is negative).

Case 2: If $a > 0$ and $b < 0$, then $\frac{1}{a} > 0$ and $\frac{1}{b} < 0$ so $\frac{1}{a} < \frac{1}{b}$. (See Exercise 6f for an example of this.)

33. Show that if $|a - 5| < \frac{1}{2}$ and $|b - 8| < \frac{1}{2}$, then

$|(a + b) - 13| < 1$. *Hint:* Use the triangle inequality ($|a + b| \leq |a| + |b|$).

SOLUTION

$$\begin{aligned} |(a + b) - 13| &= |(a - 5) + (b - 8)| \\ &\leq |a - 5| + |b - 8| \quad (\text{by the triangle inequality}) \\ &< \frac{1}{2} + \frac{1}{2} = 1 \end{aligned}$$

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