

Set Notation

Write in set notation. Try to use more than one notation for each one.

1. The set of integers greater than -2.
2. The set of integers between and including 1 and 5.
3. The set of real numbers greater than -2.
4. The set of real numbers between and including 1 and 5.

Write in interval notation.

5. $\{x \mid x \leq -5\}$
6. $\{x \mid x > 3\}$
7. $\{x \mid -4 < x \leq 5\}$

Write in set builder notation.

8. $(-2, 3]$
9. $(-\infty, 4]$
10. $(-1, \infty)$

SOLUTIONS

Write in set notation. Try to use more than one notation for each one.

1. $\{-1, 0, 1, 2, 3, \dots\}$ or $\{x \mid x > -2, \text{ where } x \text{ is an integer}\}$
2. $\{1, 2, 3, 4, 5\}$ or $\{x \mid 1 \leq x \leq 5, \text{ where } x \text{ is an integer}\}$
3. $\{x \mid x > -2\}$ or $(-2, \infty)$
4. $\{x \mid 1 \leq x \leq 5\}$ or $[1, 5]$

Write in interval notation.

5. $(-\infty, 5]$
6. $(3, \infty)$
7. $(-4, 5]$

Write in set builder notation.

8. $\{x \mid -2 < x \leq 3\}$
9. $\{x \mid x \leq 4\}$
10. $\{x \mid x > -1\}$