Exercise 40

Inequalities Write each statement in terms of inequalities.

- (a) y is negative.
- (b) z is greater than 1.
- (c) b is at most 8.
- (d) w is positive and is less than or equal to 17.
- (e) y is at least 2 units from π .

Solution

- y is negative: y < 0.
- z is greater than 1: z > 1.
- b is at most 8: $b \leq 8.$

w is positive and is less than or equal to 17: $0 < w \le 17$.

y is at least 2 units from π : $d(\pi, y) \ge 2$ or $|y - \pi| \ge 2$.