



Function Domain/Range Definition - Interval to Inequality (With Union)

1 What inequality describes the range of this interval?

$$(-\infty, 7) \cup (10, \infty)$$

A $Y < 7$ or $10 < Y$

B $-7 < Y < 7$ or $10 < Y$

2 What inequality describes the domain of this interval? $(-\infty, 7] \cup (8, 10)$

A $X \leq 7$ or $8 < X < 10$

B $-7 \leq X \leq 7$ or $8 \leq X < 10$

3 What inequality describes the domain of this interval? $(-9, 7) \cup [8, \infty)$

A $-9 < X < 7$ or $8 \leq X$

B $X < 7$ or $8 < X < 10$

4 What inequality describes the range of this interval? $(-6, 7) \cup [8, \infty)$

A $-6 < Y < 7$ or $8 \leq Y$

B $Y < 7$ or $8 < Y$

5 What inequality describes the domain of this interval? $(-\infty, 7) \cup [9, \infty)$

A $X < 7$ or $9 \leq X$

B $-7 < X < 7$ or $9 < X < 10$

6 What inequality describes the domain of this interval? $[2, 5) \cup [9, \infty)$

A $X \leq 5$ or $9 \leq X$

B $2 \leq X < 5$ or $9 \leq X$

7 What inequality describes the domain of this interval? $[1, 7) \cup (8, \infty)$

A $1 \leq X < 7$ or $8 < X$

B $1 < X \leq 7$ or $8 \leq X$

8 What inequality describes the domain of this interval? $(-\infty, 7] \cup (8, 10]$

A $4 \leq X < 7$ or $8 < X < 10$

B $X \leq 7$ or $8 < X \leq 10$