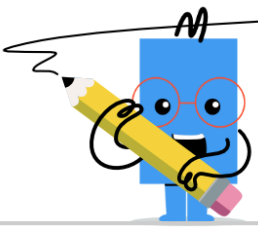
Name

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



1 What inequality describes the domain of this interval? $(-6,-1) \cup (1,\infty)$

A $-6 < X < -1$ or $1 < X$

B $-6 \leq X < -1$ or $-1 < X < 1$

2 What inequality describes the range of this interval?

$$(-\infty,-6] \cup [-3,\infty)$$

A $Y \leq -6$ or $-3 \leq Y \leq 3$

B $Y \leq -6$ or $-3 \leq Y$

3 What inequality describes the range of this interval?

$$[-10,-1] \cup (1,\infty)$$

A $-10 < Y < -1$ or $-1 < Y < 1$

B $-10 \leq Y \leq -1$ or $1 < Y$

4 What inequality describes the range of this interval? $[1,4) \cup (4,\infty)$

A $1 \leq Y < 4$ or $4 < Y$

B $1 \leq Y \leq 4$ or $-4 < Y < 4$

5 What inequality describes the range of this interval? $[-5,7] \cup [8,10)$

A $-5 \leq Y < 7$ or $8 < Y \leq 10$

B $-5 \leq Y \leq 7$ or $8 \leq Y < 10$

6 What inequality describes the range of this interval? $[-2,7] \cup (8,10]$

A $-2 \leq Y \leq 7$ or $8 < Y \leq 10$

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

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

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

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

8 What inequality describes the range of this interval? $(-\infty,6) \cup [8,10)$

A $Y < 6$ or $8 < Y \leq 10$

B $Y < 6$ or $8 \leq Y < 10$