TAKS Objective 2
TEK A.2B
Tutorial
(Grades 9, 10, and 11)

…identify mathematical domains and ranges and determine reasonable domain and range values for given situations, both continuous and discrete.

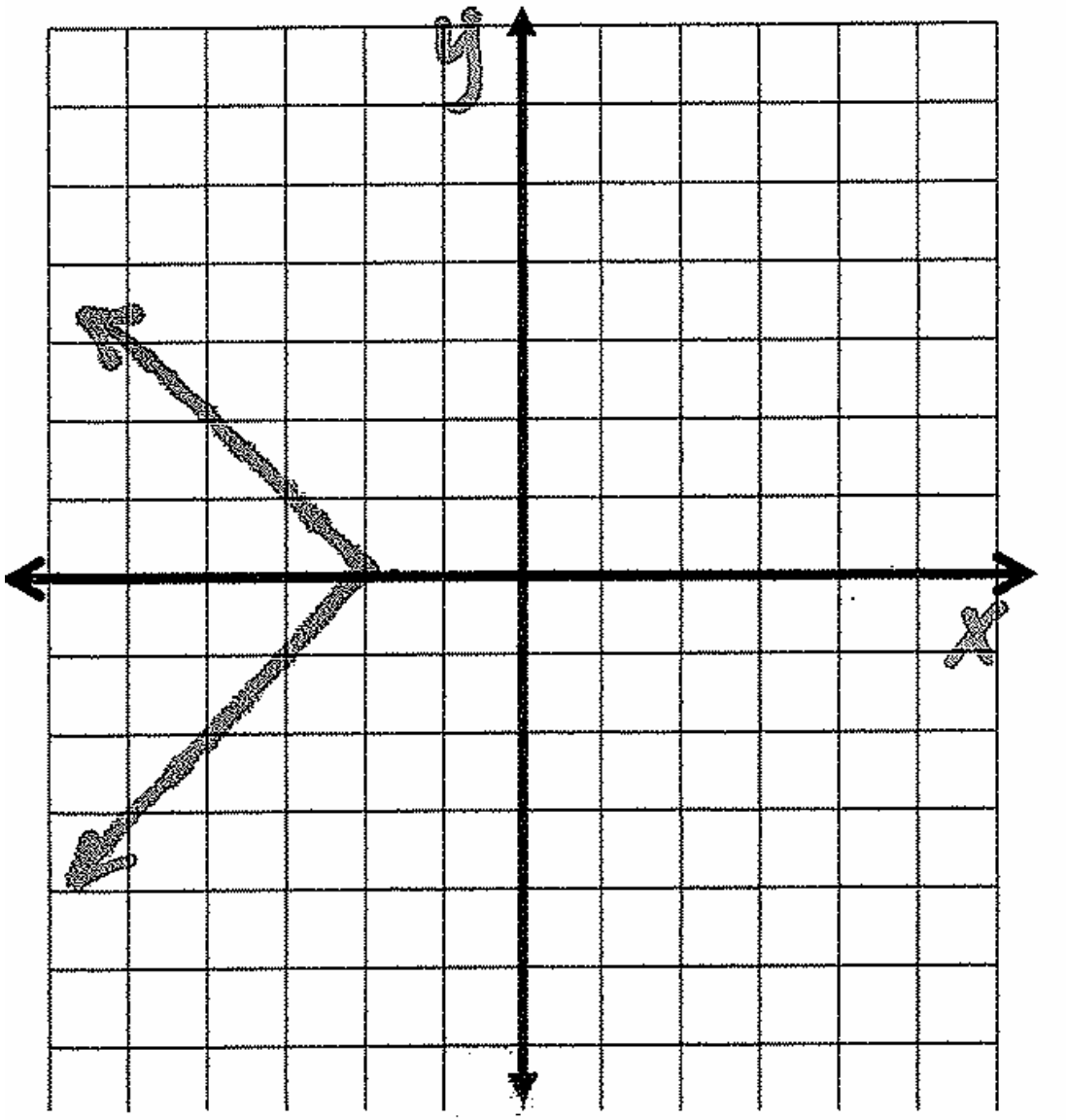
Domain relates to the x-values.

Range relates to the y-values.

When given points, whether listed or graphed, the domain and range will be a listing of the values.

When given a continuous graph, the domain and range include inequalities.

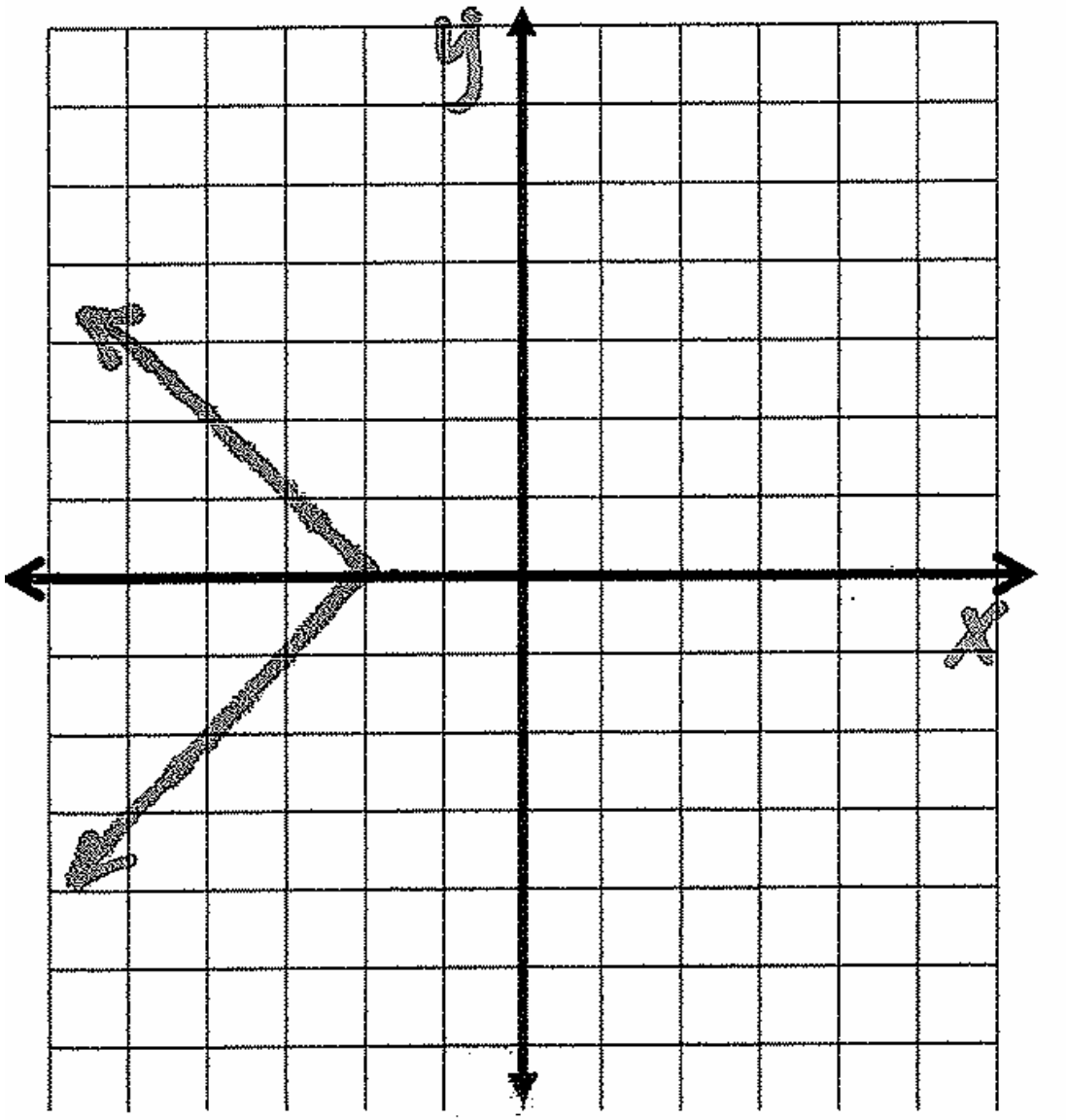
What is the domain?



Answer:

$x \leq -2$

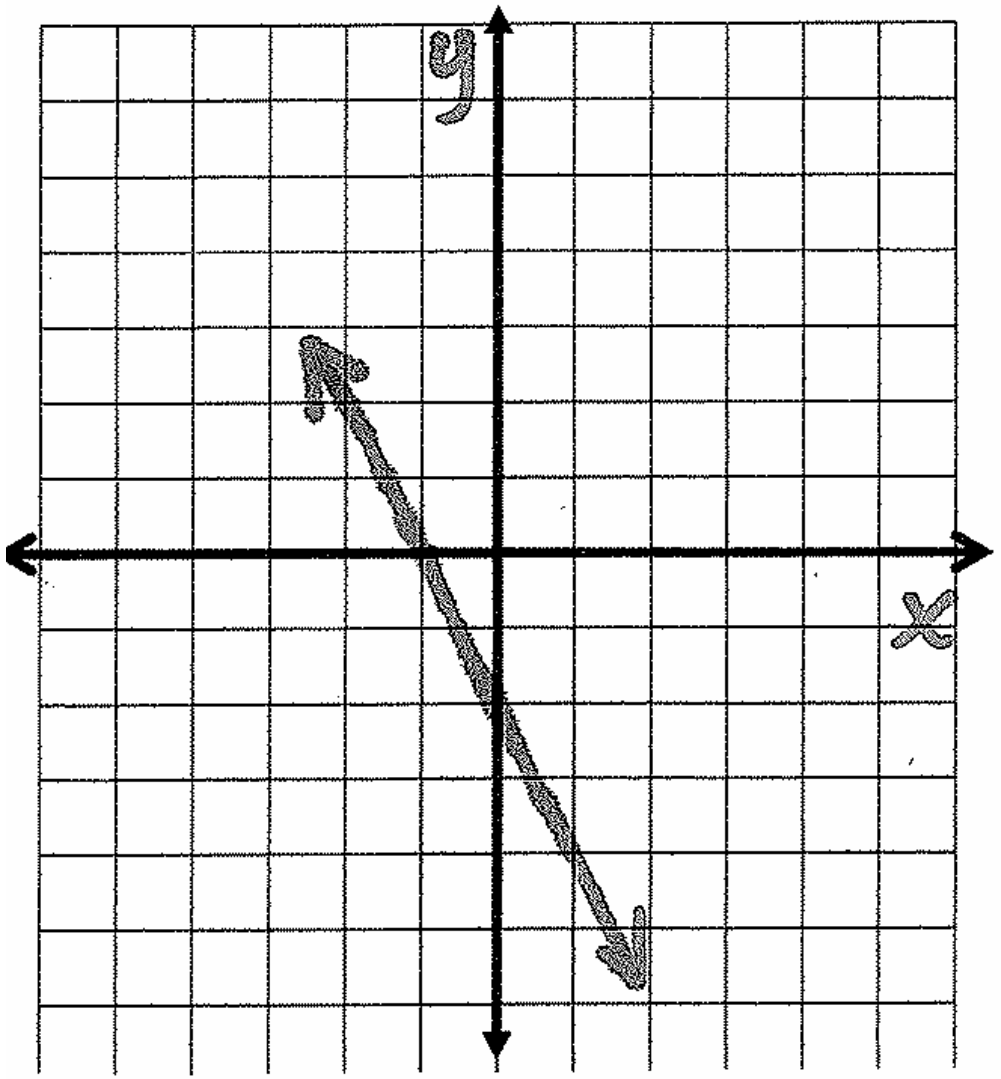
What is the range?



Answer:

all real numbers

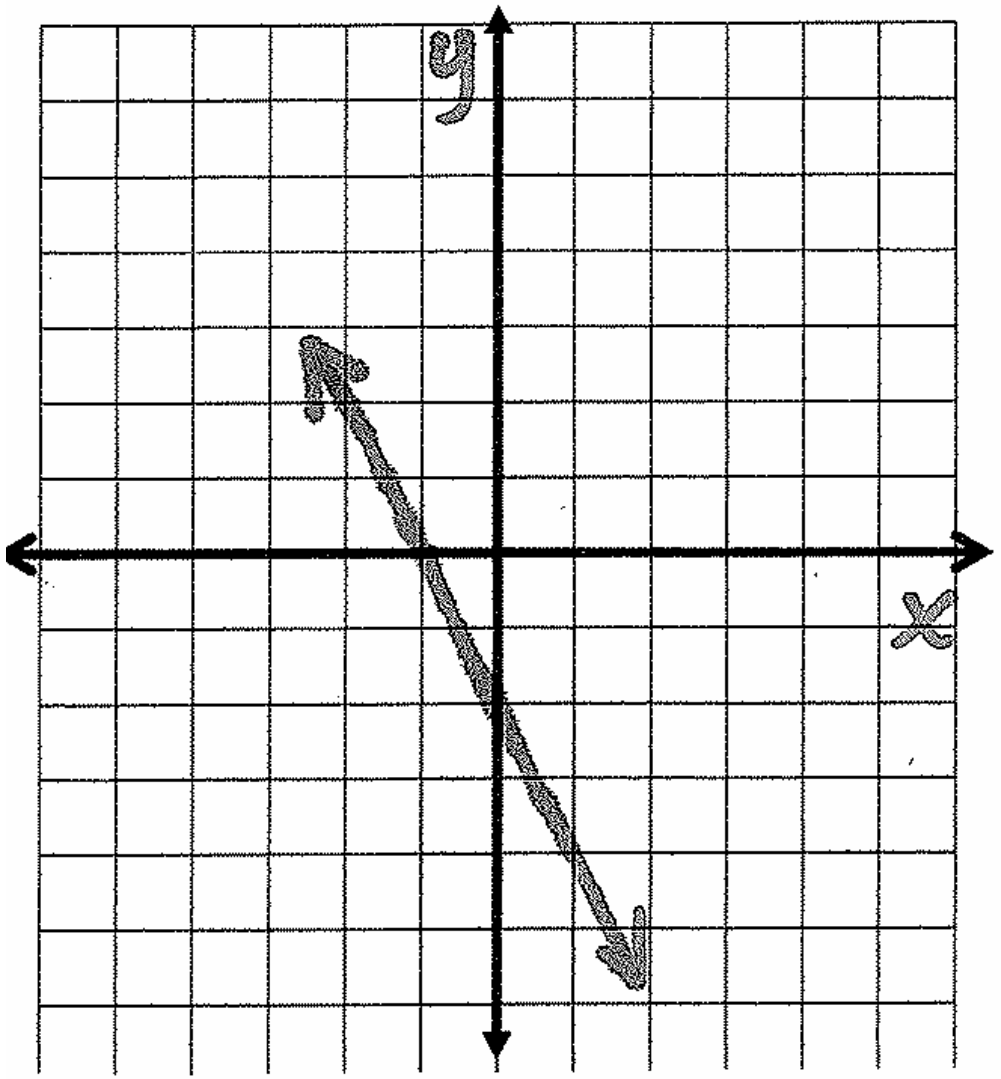
What is the domain?



Answer:

all real numbers

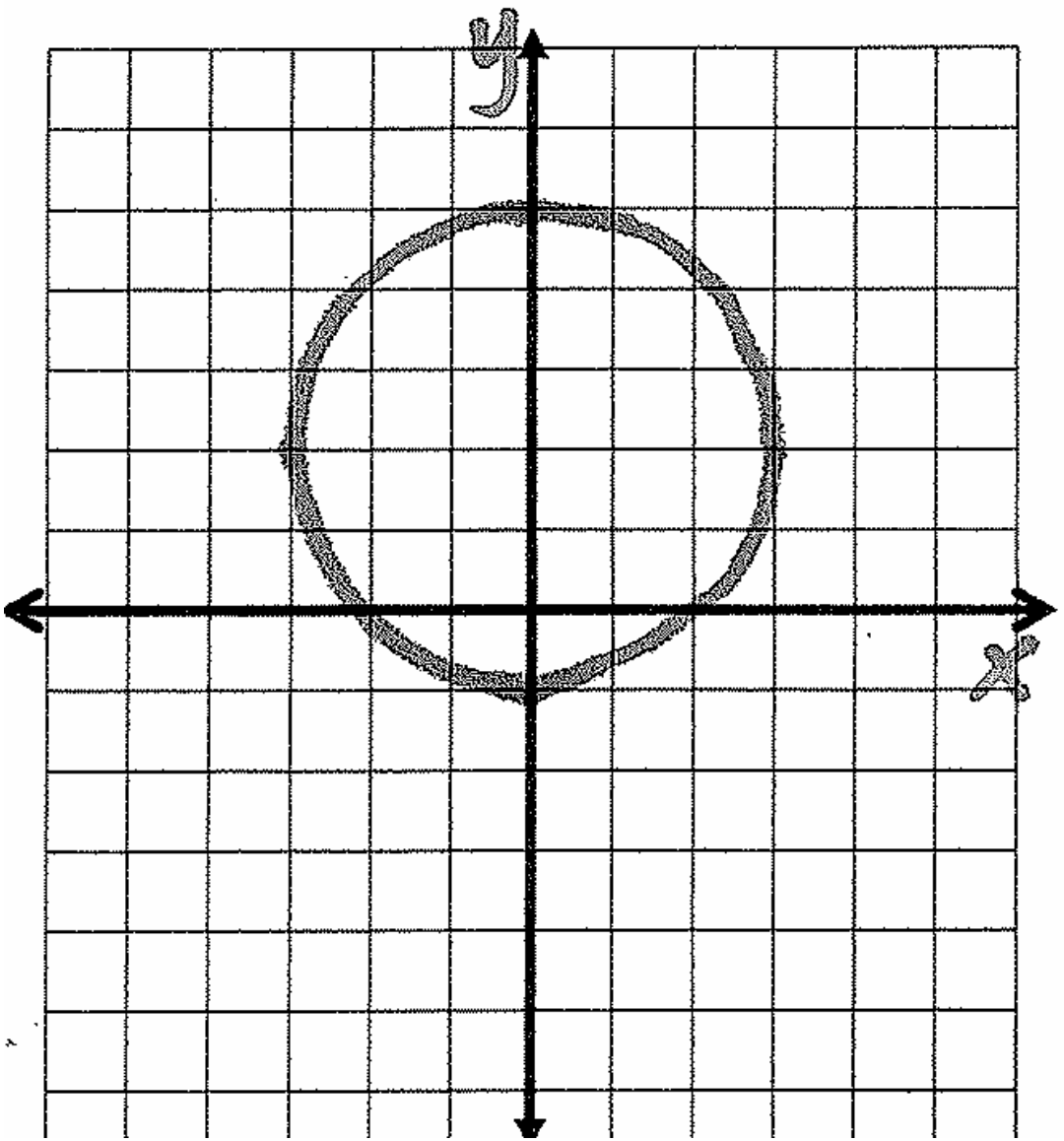
What is the range?



Answer:

all real numbers

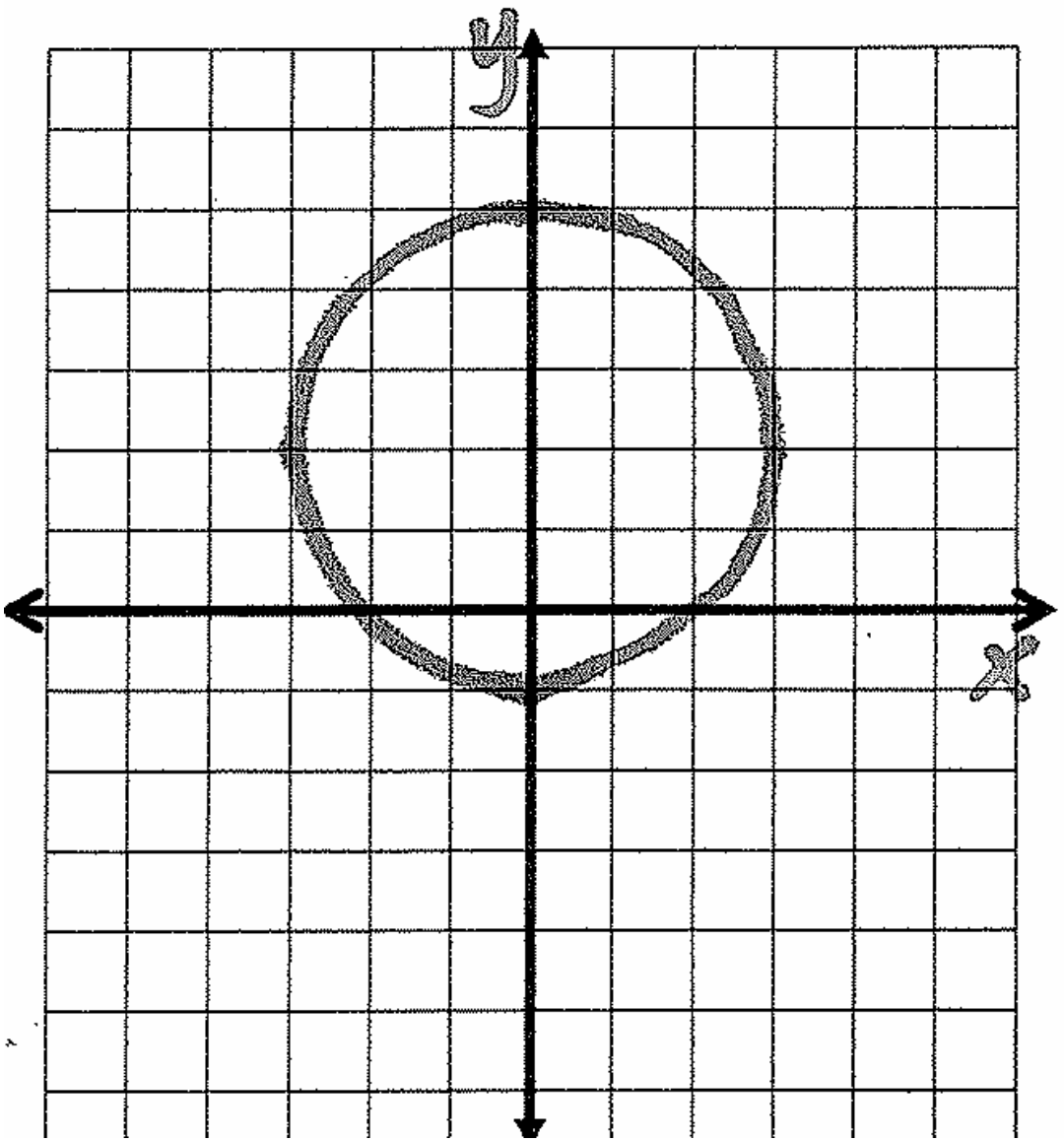
What is the domain?



Answer:

$-3 \leq x \leq 3$

What is the range?



Answer:

$-1 \leq y \leq 5$

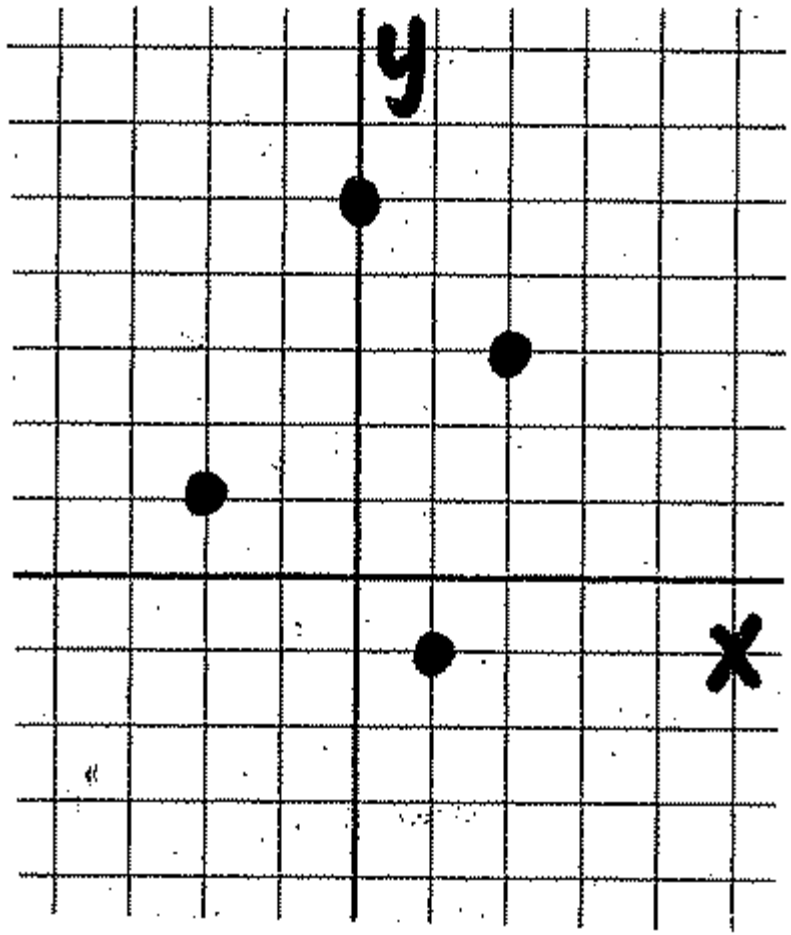
What is the domain of {(-3, 2), (-1, 8), (5, -1)}?

{-3, -1, 5}

What is the range of {(-3, 2), (-1, 8), (5, -1)}?

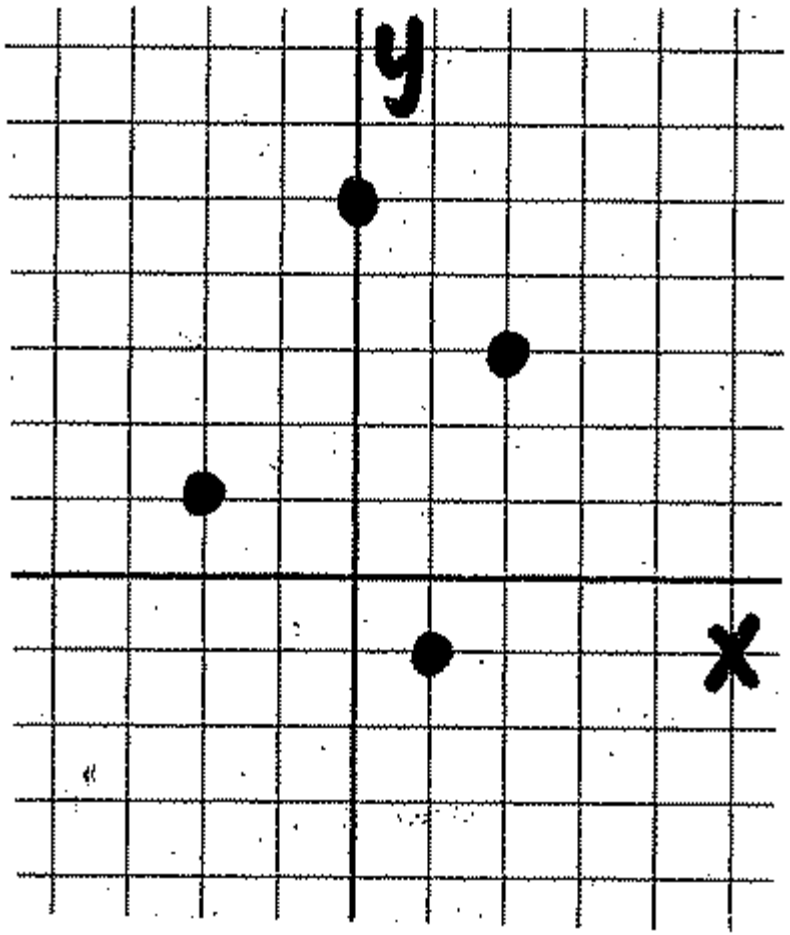
{2, 8, -1}

What is the domain?



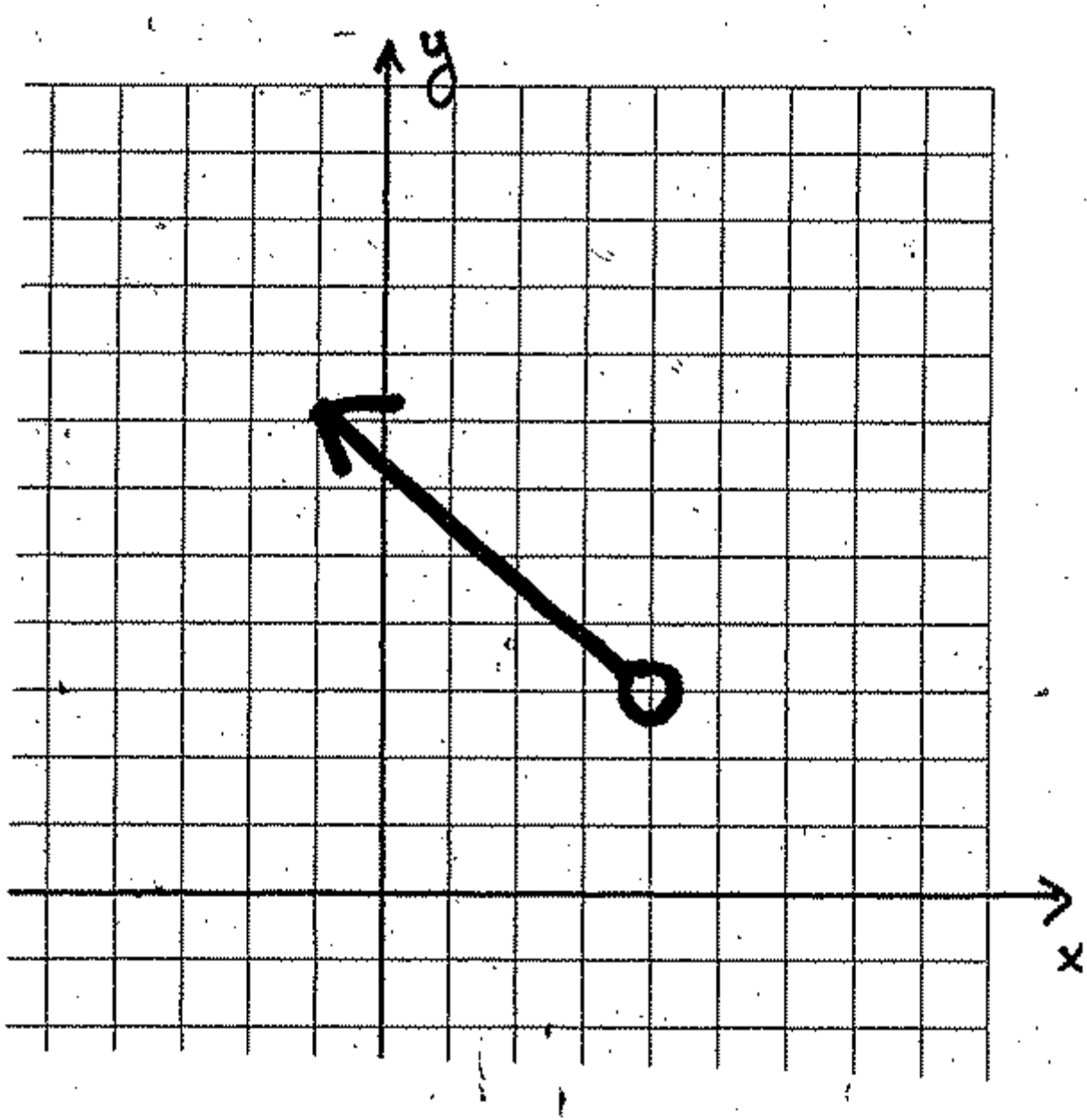
{-2, 0, 1, 2}

What is the range?



{-1, 1, 3, 5}

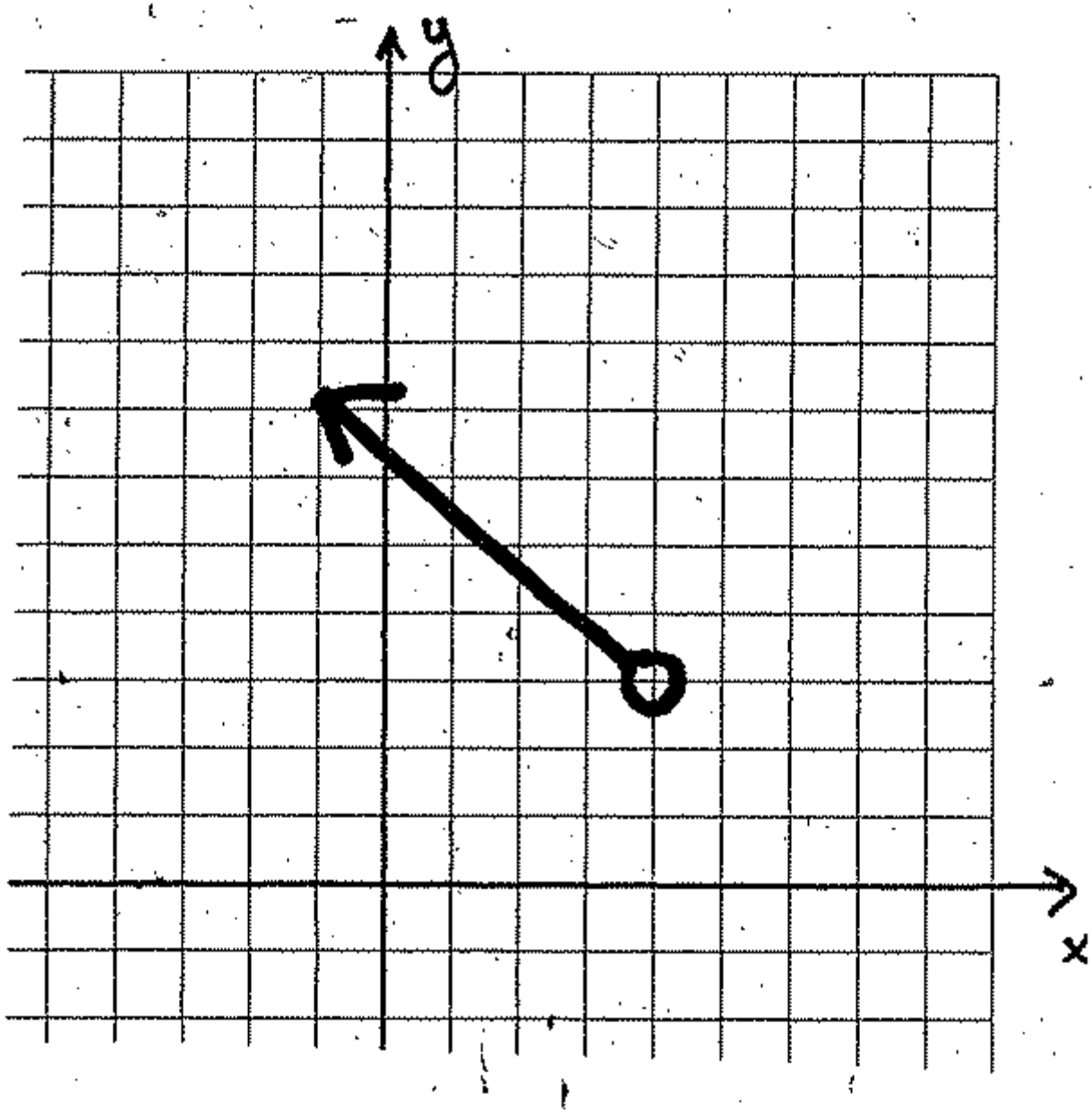
What is the domain?



Answer:

$x < 4$

What is the range?



Answer:

$y > 3$