

Coordinate Grids

IXL Skills to Practice

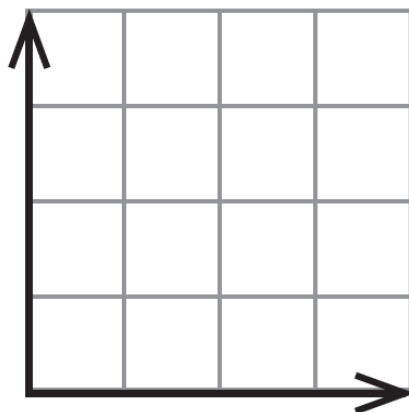
Level H - Coordinate Plane

V.1 Objects on a coordinate plane

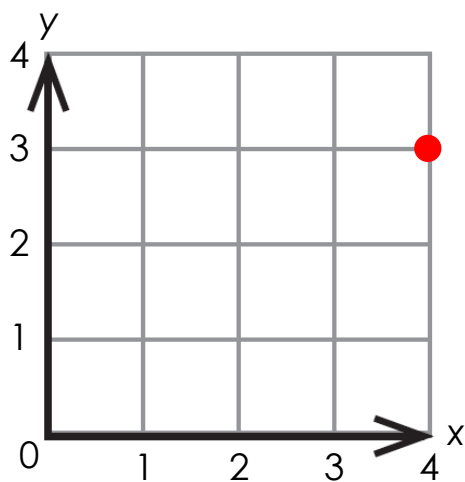
V.2 Graph points on a coordinate plane

V.3 Quadrants

In geometry, we use grids with number lines that always meet at 0. This is the [coordinate grid](#).



Identify the **ordered pair**.



Its **coordinates** are: $x = \underline{\quad}$ $y = \underline{\quad}$

Exercises:

Rewrite the **coordinates** of the point as $x = \underline{\quad}$, $y = \underline{\quad}$.

a) (2, 1)

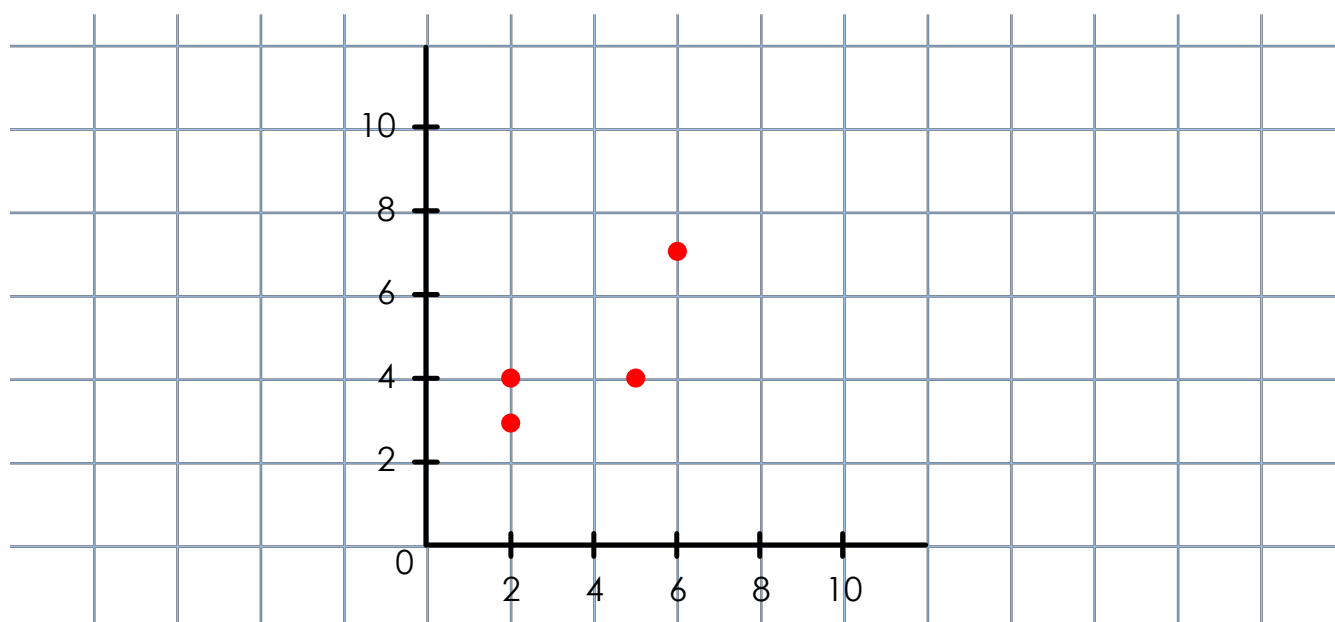
b) (1, 3)

c) (4, 2)

d) (3, 4)

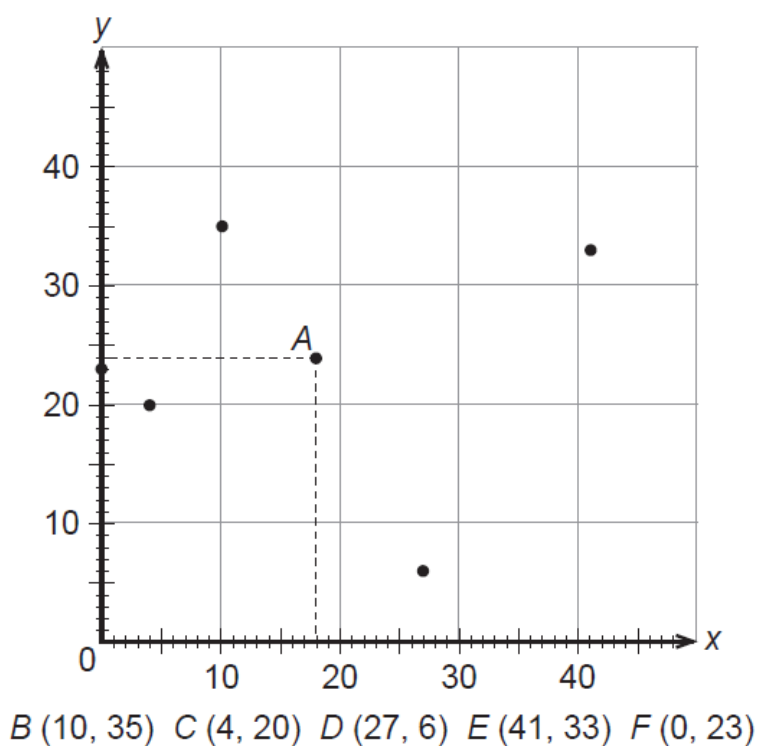
Hint: x before y

Sometimes, **axes** skip count by 2s. What are the **coordinates** of these points?



Hint what numbers are in between 2 and 4 and 6 and 8?

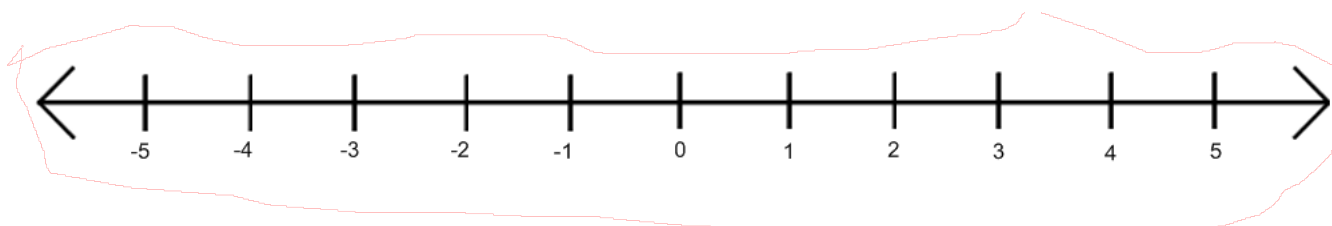
What are the **coordinates** of point A?



Hint count the little lines that represent ones to figure it out and remember x before y.

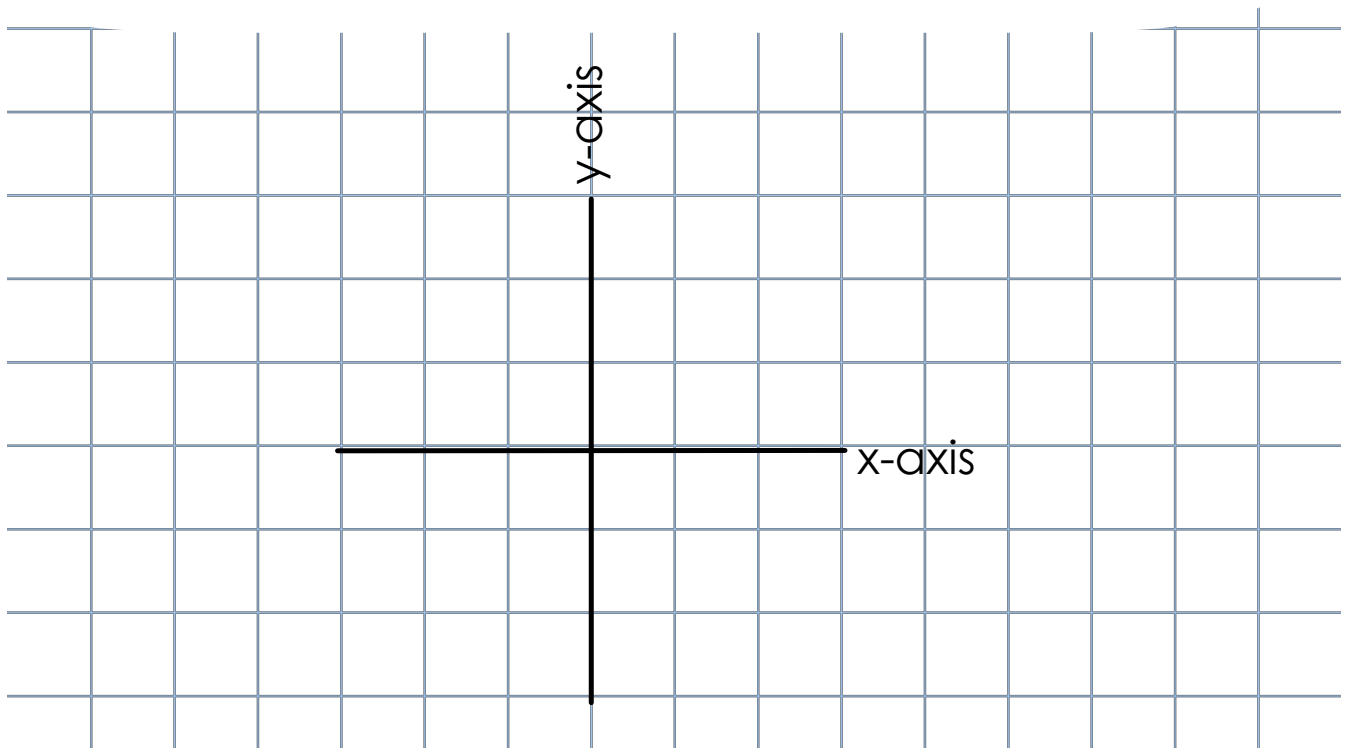
Cartesian Planes and Quadrants

Remember:
Number lines can extend in both directions.

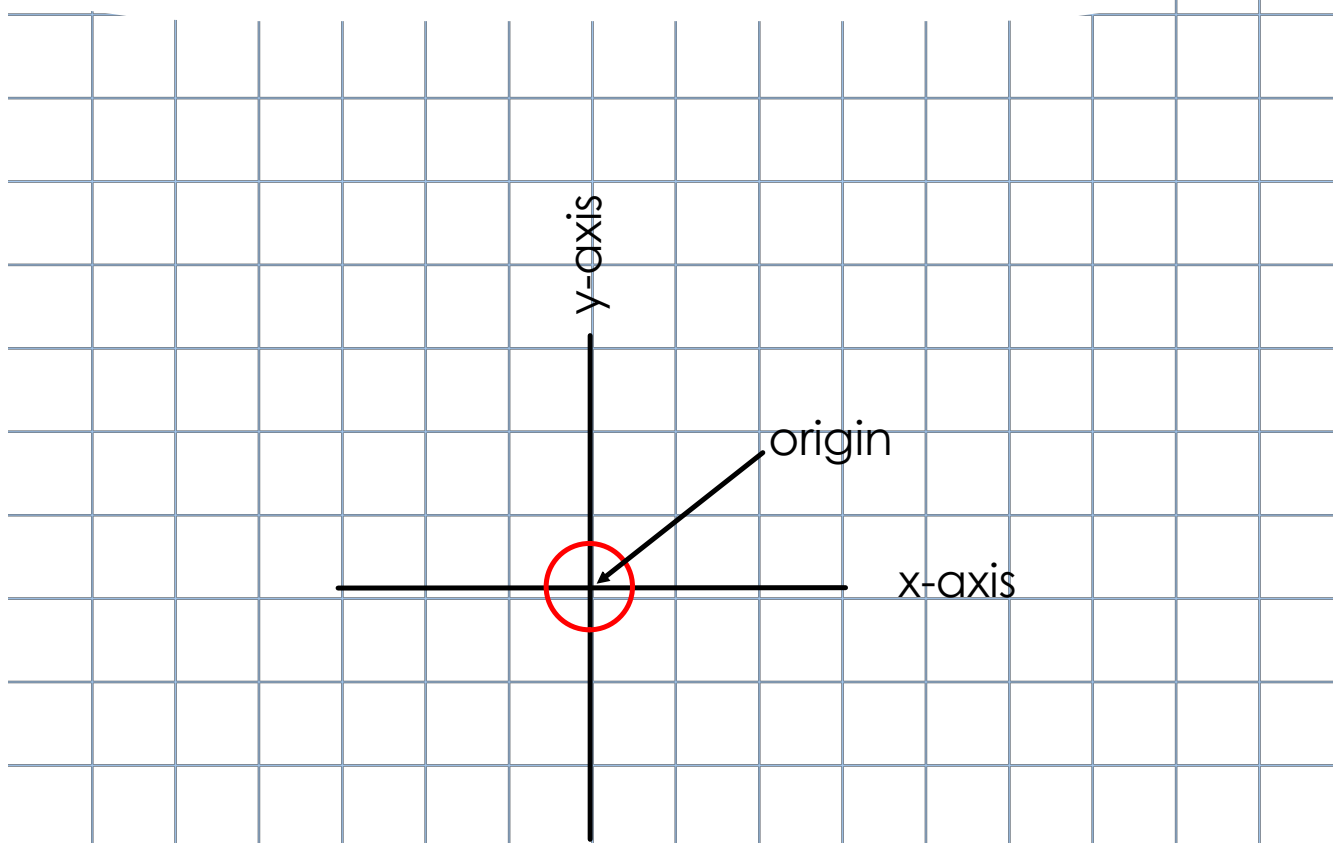


Each line in a **coordinate system** is called an axis. (The plural of axis is axes.) The horizontal line is called the x-axis and the vertical line is called the y-axis.

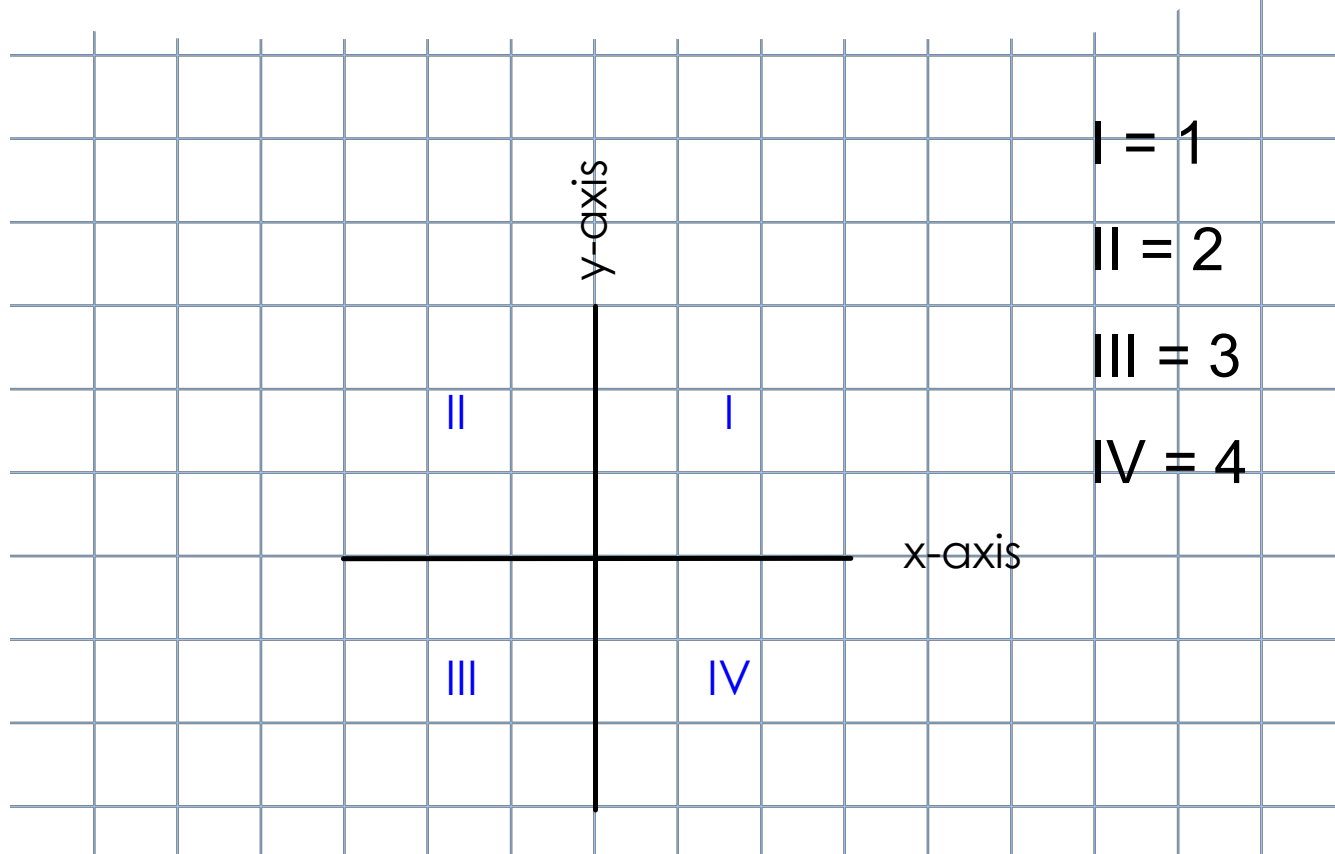
The coordinate system below is called a **Cartesian Plane**



The point at which the 2 axes intersect is called the origin. The origin is noted as $(0,0)$.



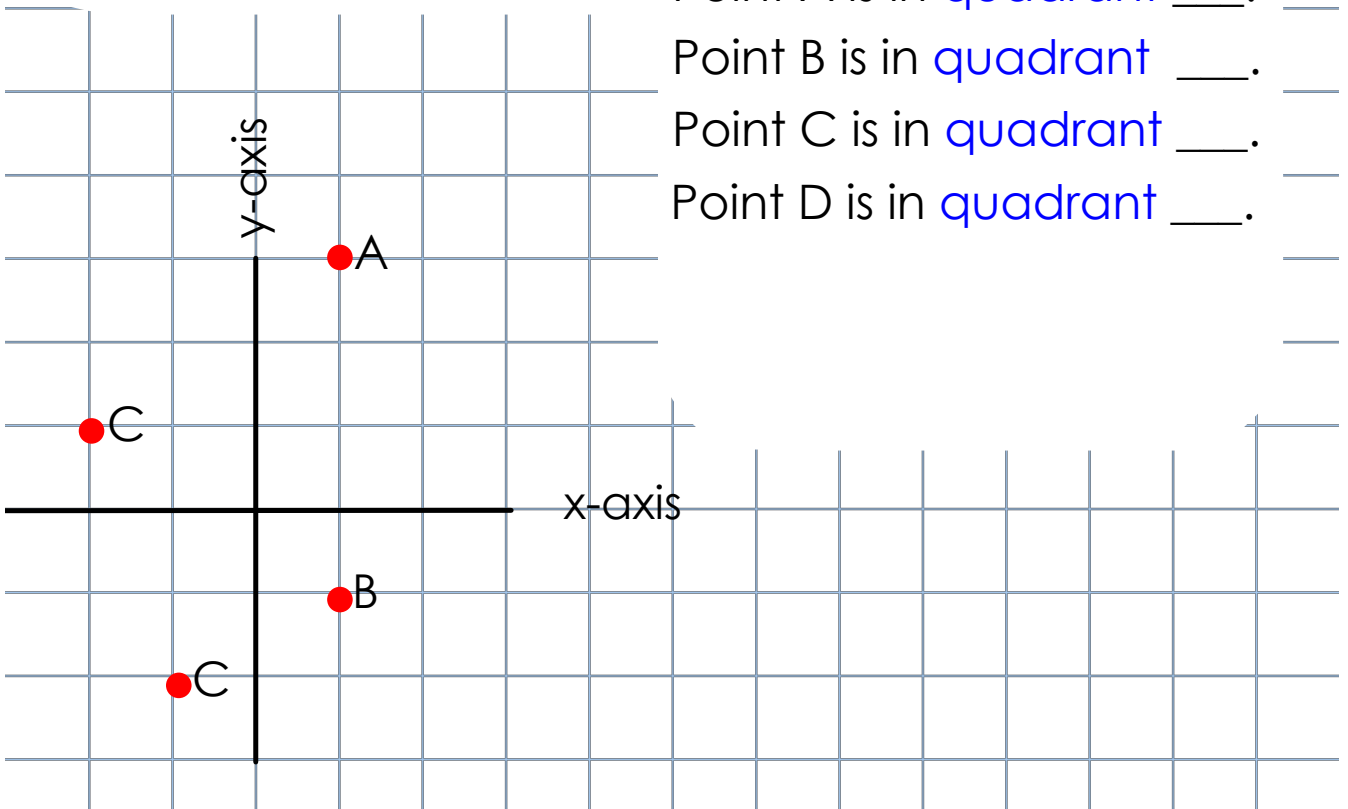
The axes separate the grid into four parts.
These parts are called **quadrants**.



Think about:

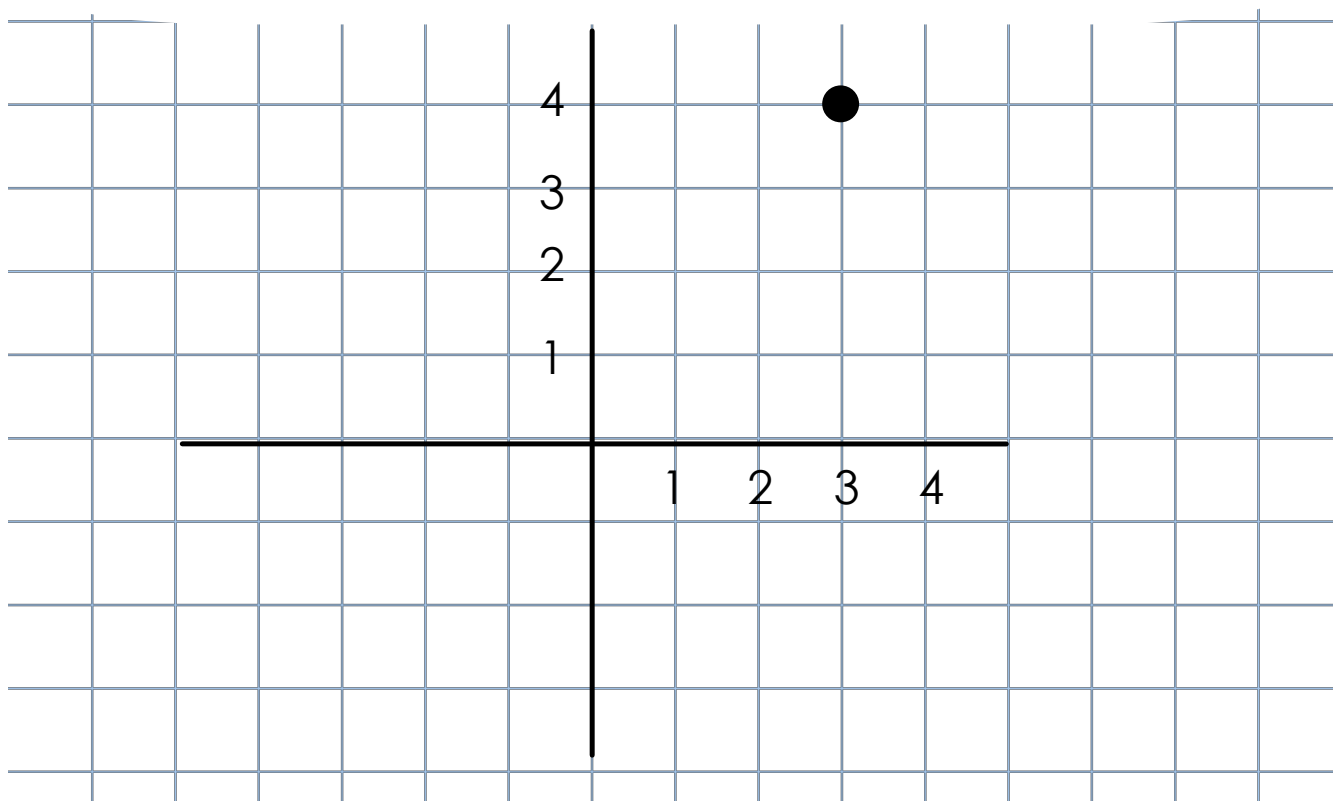
Which **quadrant** is the point in?

--	--	--	--	--	--	--	--

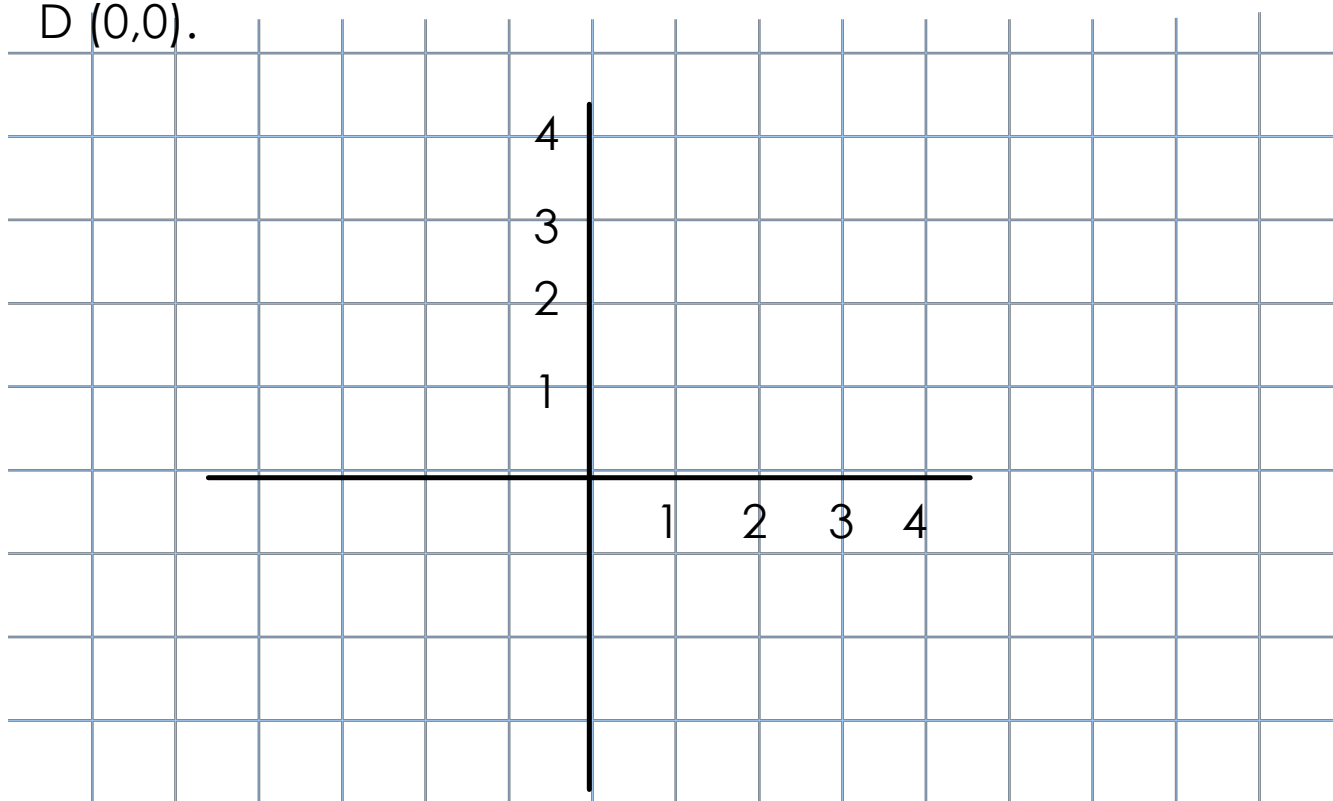


Remember:

In a coordinate pair such as $(3,4)$, 3 is the **column** number and 4 is the **row** number.

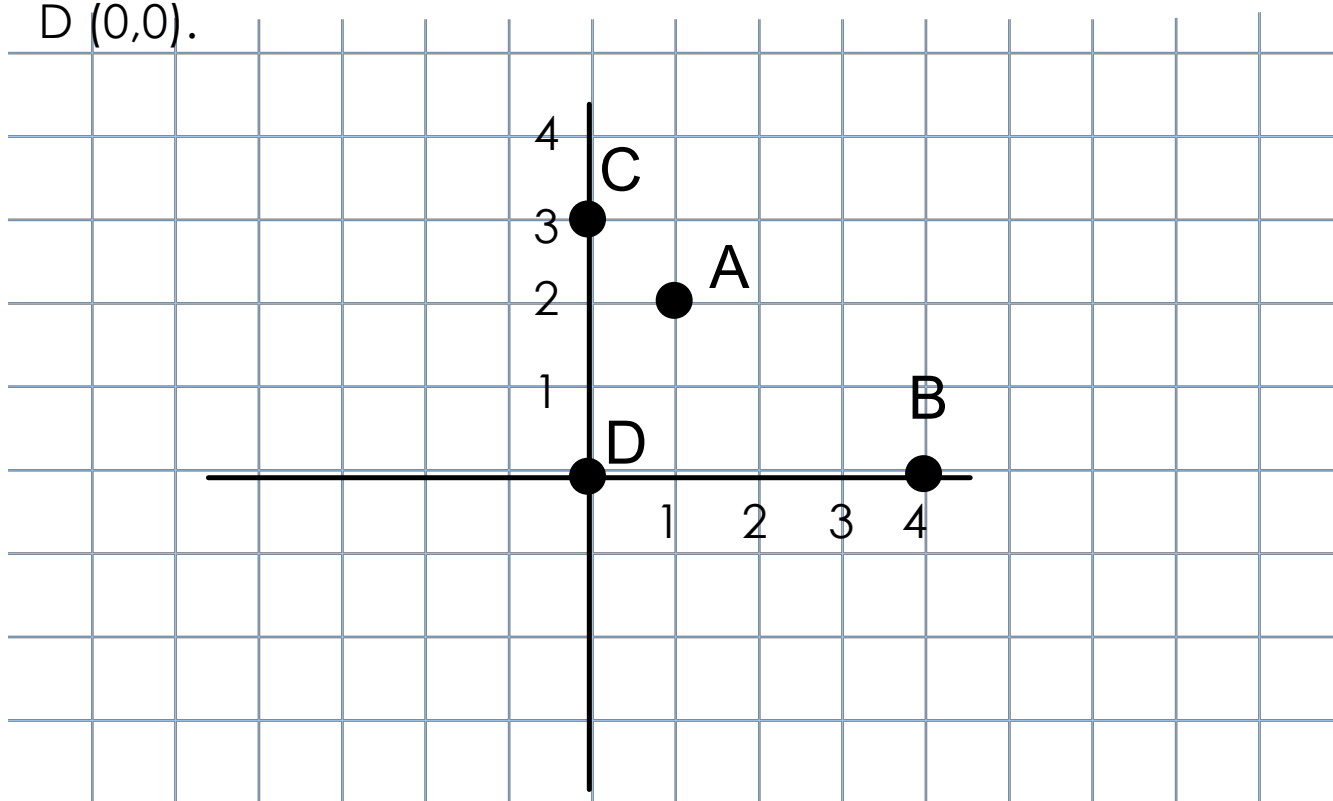


Plot the following points: A (1,2), B (4,0), C (0,3),
D (0,0).



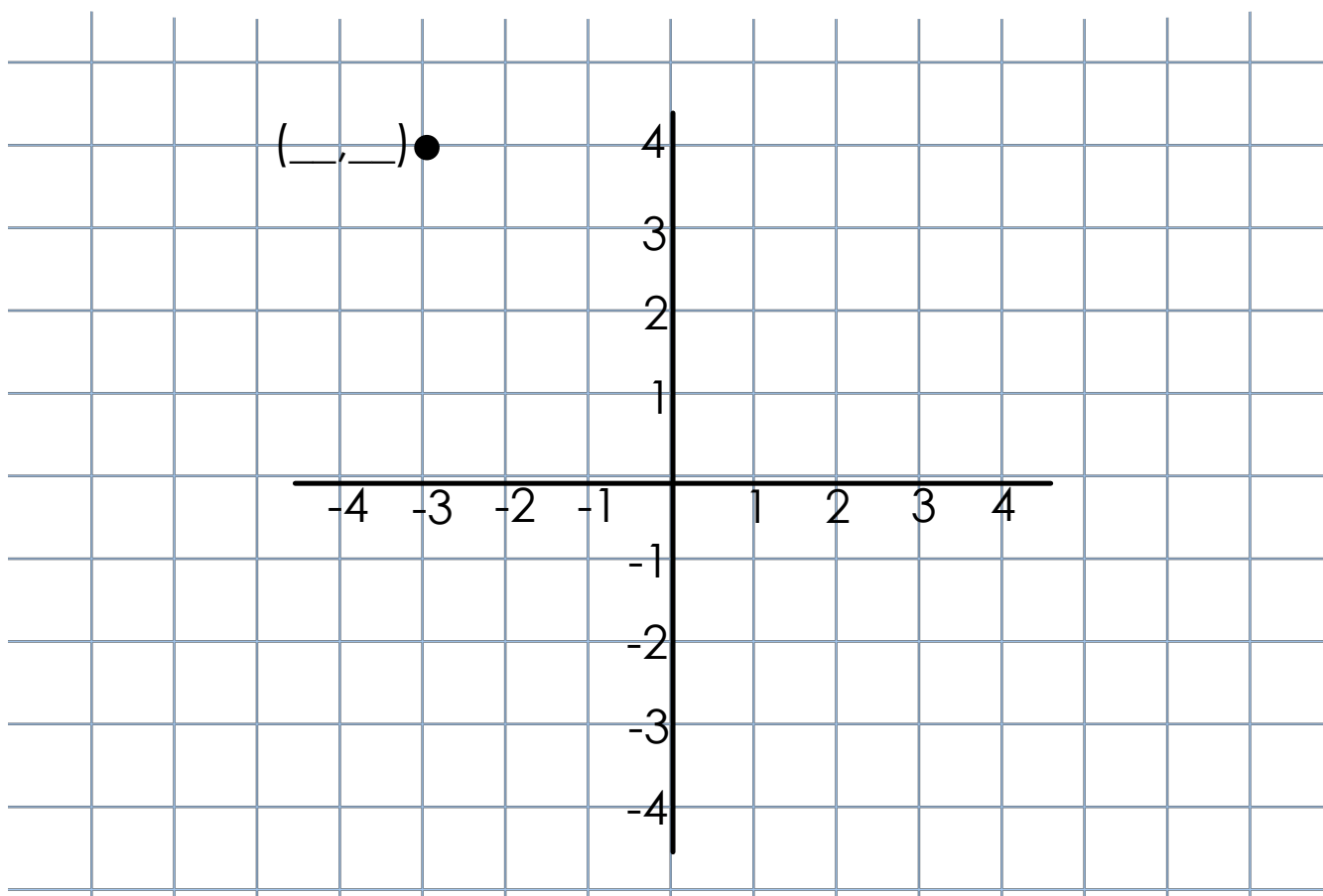
Answers

Plot the following points: A (1,2), B (4,0), C (0,3),
D (0,0).



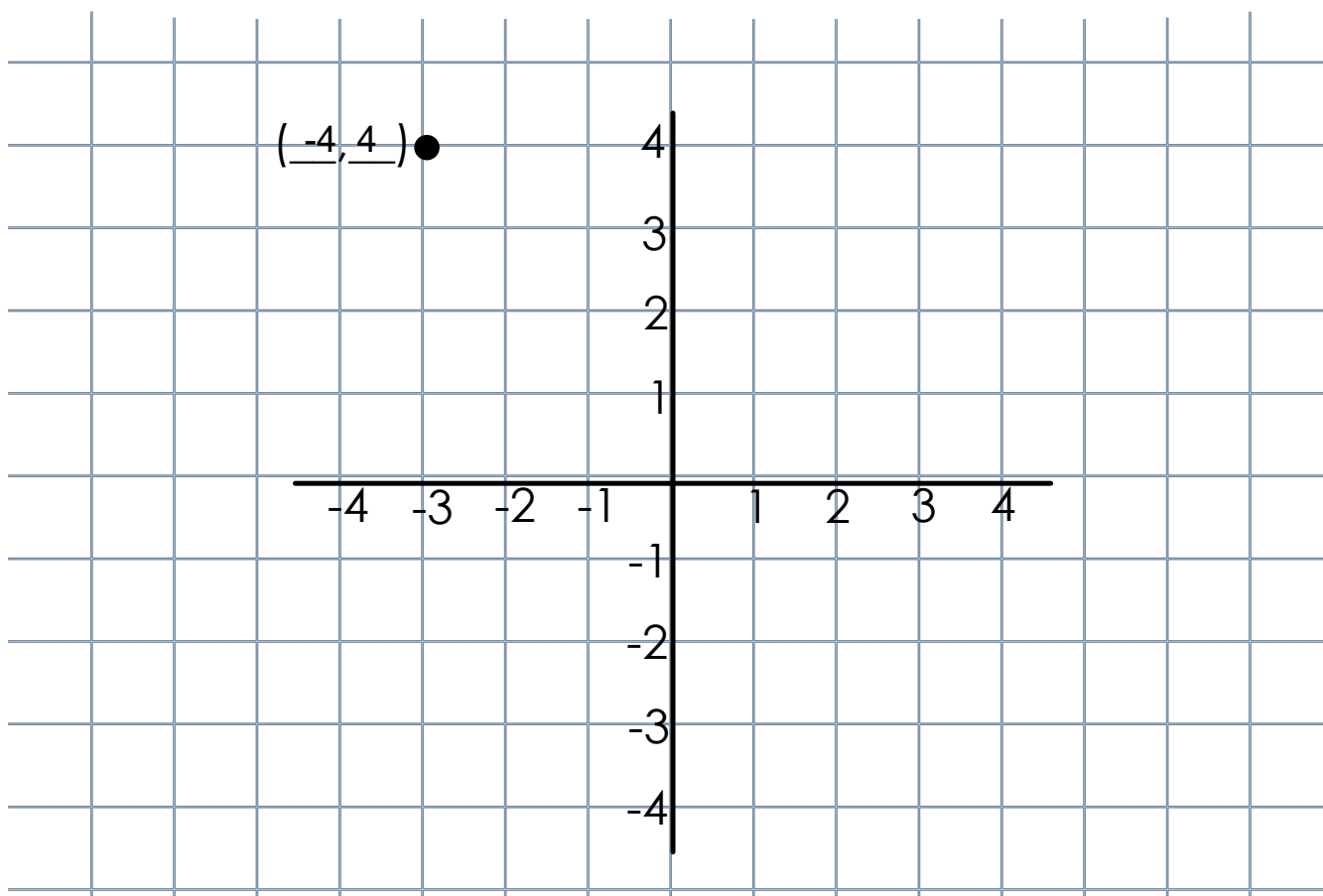
Think about:

What are the **coordinates** of the given point?

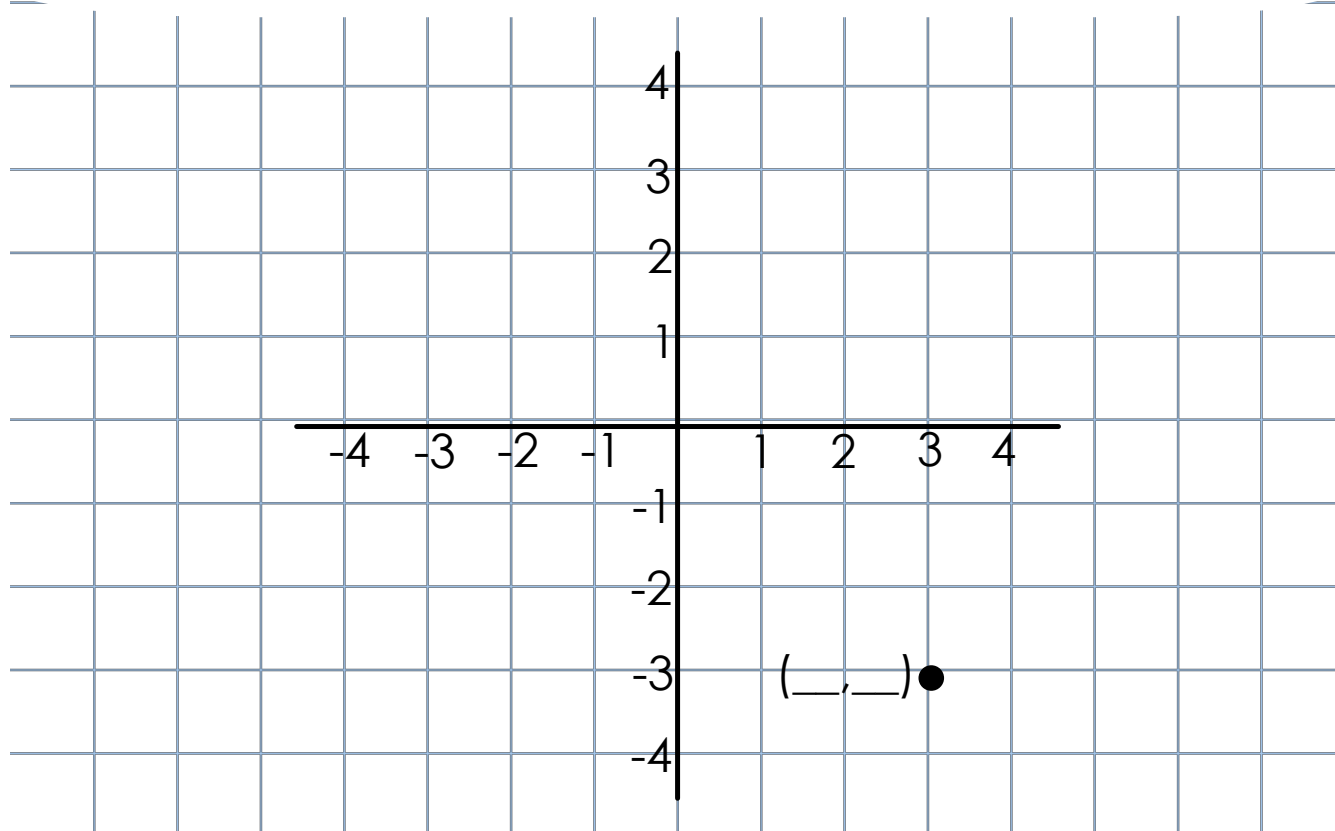


Think about:

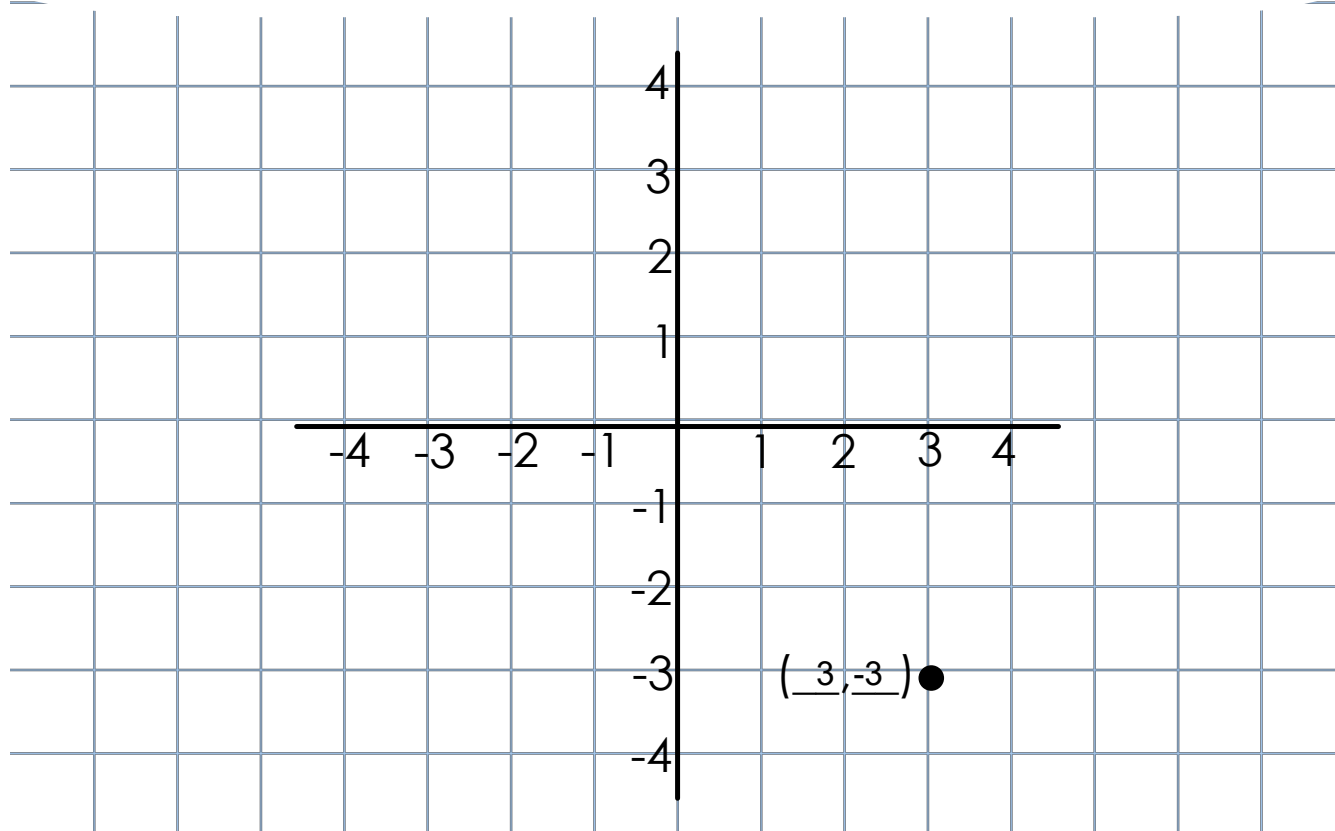
What are the **coordinates** of the given point?



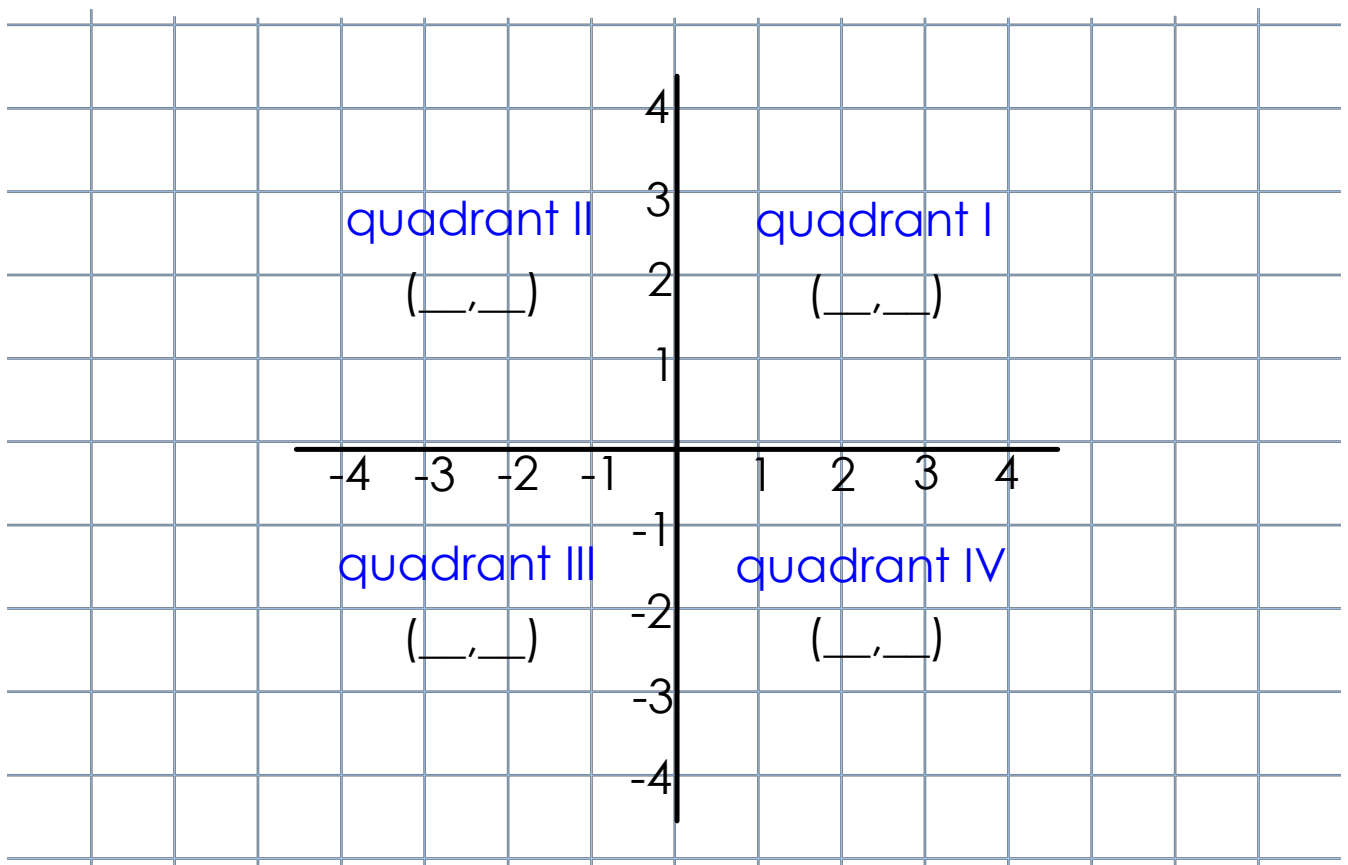
What are the **coordinates** of the given point?

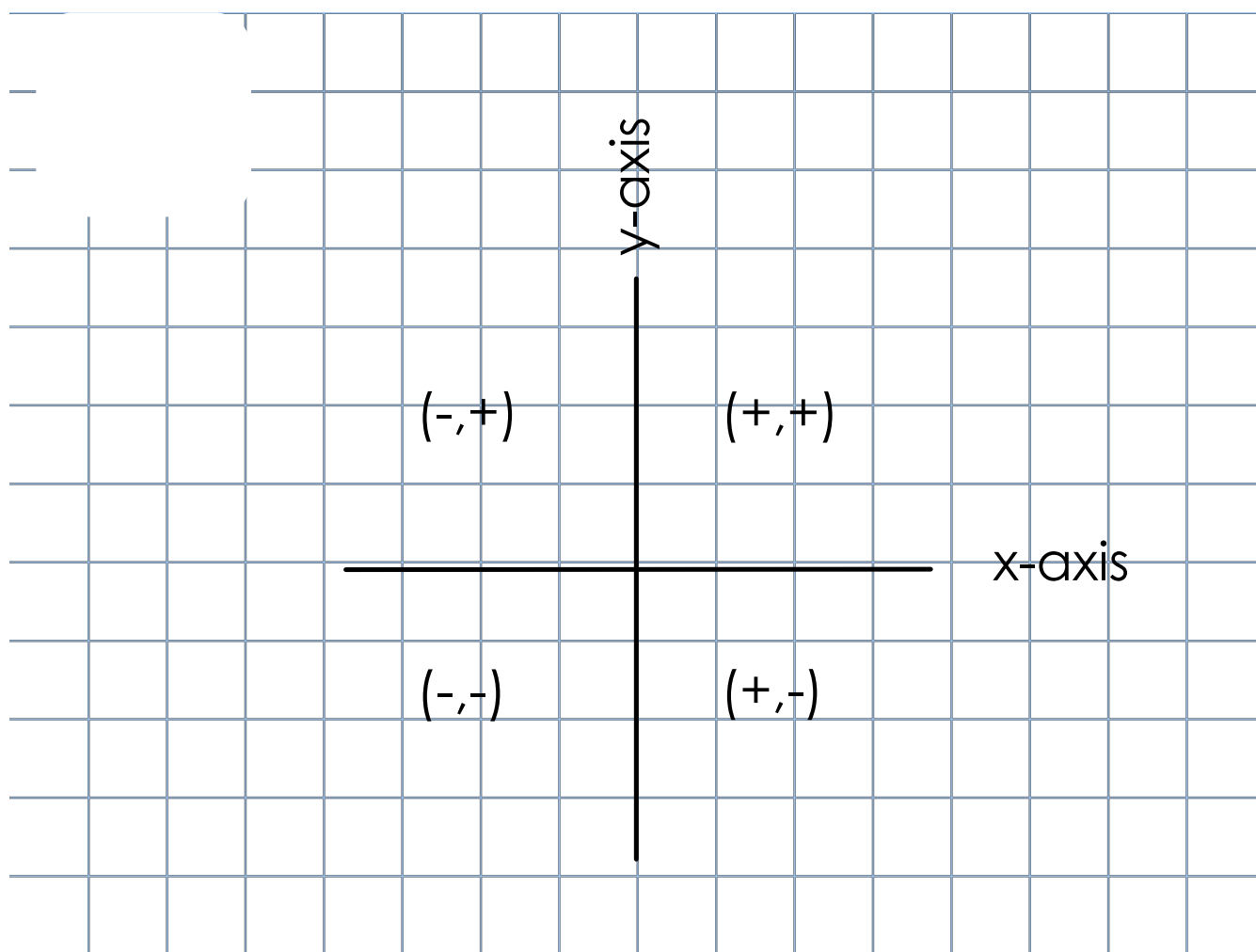


What are the **coordinates** of the given point?



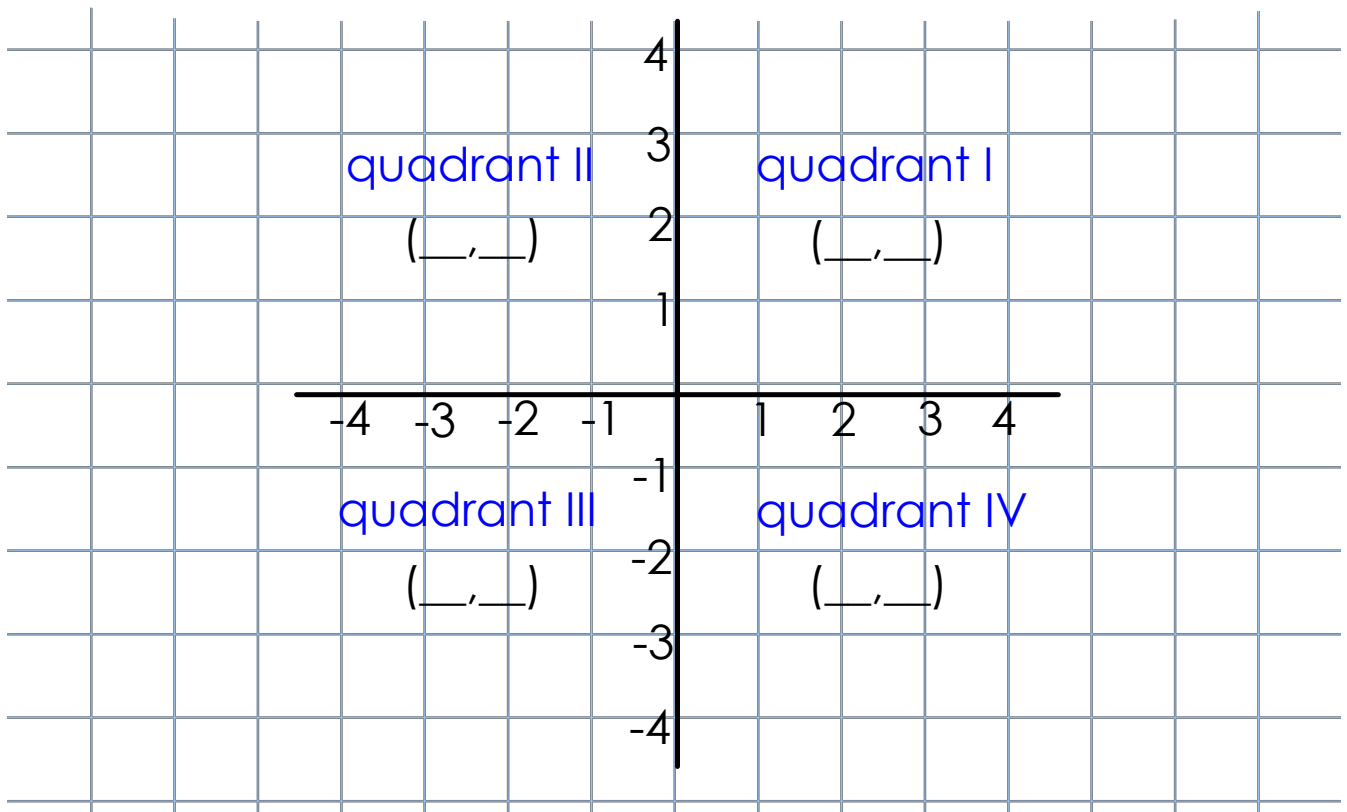
What are the signs (+positive or -negative) for each quadrant?





In which **quadrant** would the following points appear?

$(-3, 2)$, $(4, -6)$, $(-2, -2)$



Name the **coordinates** of the following points.

