Topic: Plotting points in three dimensions

Question: Which value does -7 represent in the point $(3, -7, 9)$?

Answer choices:

A x

B y

C z

D r

Solution: B

Three-dimensional coordinate points in rectangular coordinates are given in the form (x, y, z). That means that in the coordinate point $(3, -7, 9)$, $x = 3$, $y = -7$ and $z = 9$.

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Question: Which value does -5 represent in the point $(-12{,}8, -5)$?

Answer choices:

A x

B y

C z

D r

Solution: C

Three-dimensional coordinate points in rectangular coordinates are given in the form (x, y, z). That means that in the coordinate point $(-12,8,-5)$, $x = -12$, $y = 8$ and $z = -5$.

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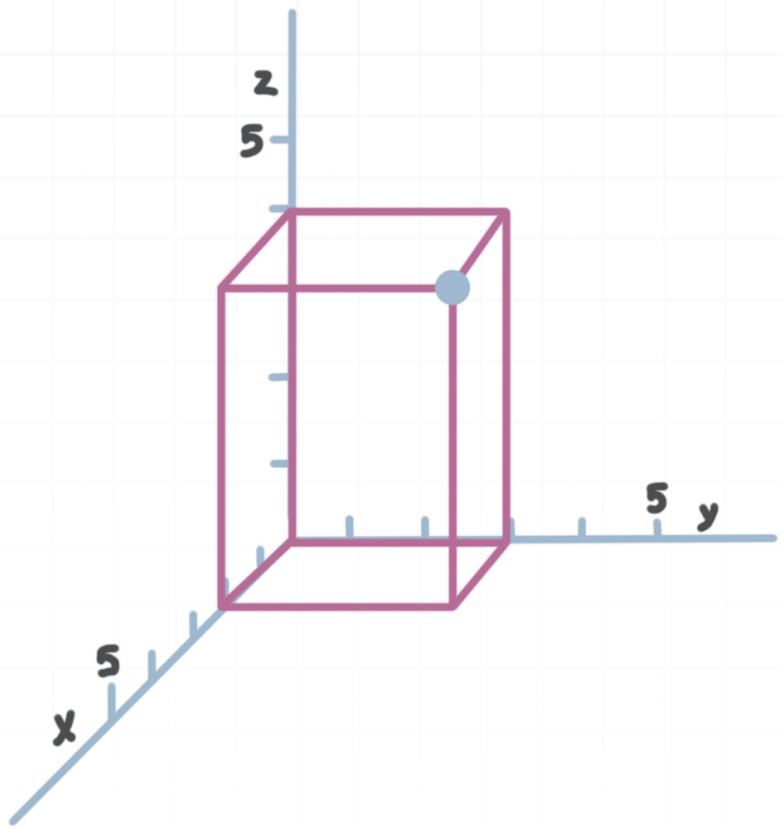
Question: Which point is shown in light blue?



Answer choices:

A (3,2,4)

B (3,4,2)

C (2,4,3)

D (2,3,4)

Solution: D

To read the point shown on the plot, start by noting the x-coordinate, then the y-coordinate, and finally the z-coordinate. For the given point, the x-value is 2, the y-coordinate is 3, and the z-coordinate is 4. This makes the plotted point $(2,3,4)$.