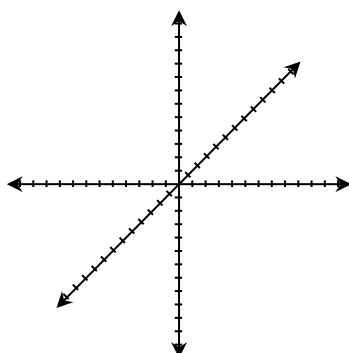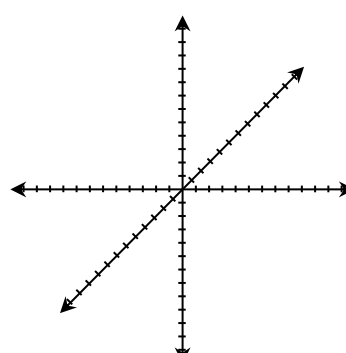| 3D Coordinate Systems (2025 Part 1)	Name:	
	Date:	Period:

Read directions carefully.
Thoroughly justify answers that are numeric or require calculations.

1. Label each grid below using x^+, x^-, y^+, y^-, z^+, and z^- for the given coordinate axis orientation.
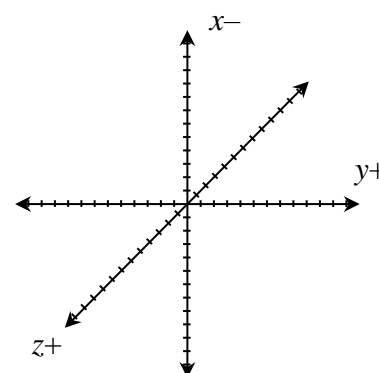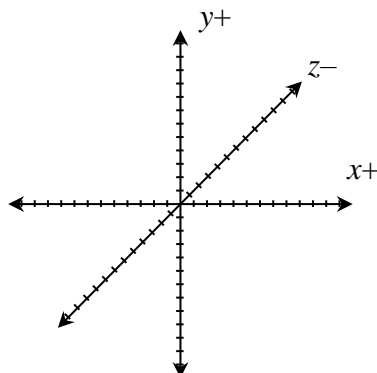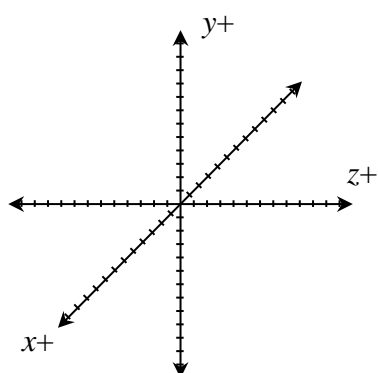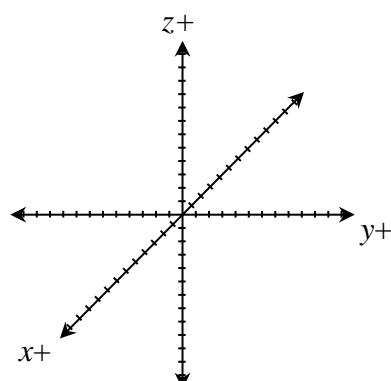
Right-Handed

Left-Handed

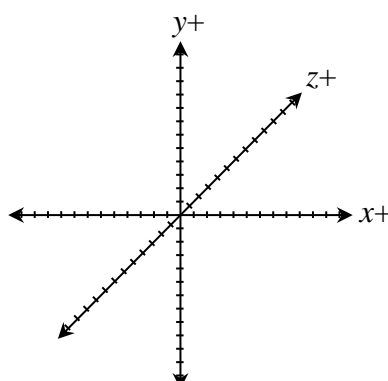2. Identify whether each coordinate system is left- or right-handed.

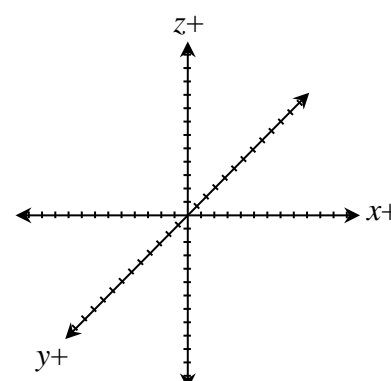**Plot the point on the given coordinate system. Note: The orientation is not always the same!**
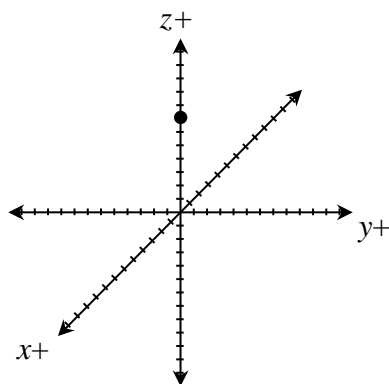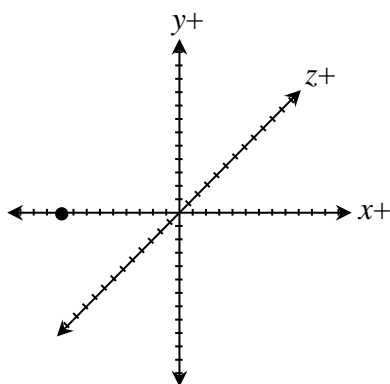
3. (0, -3, 5)

4. (5, 0, -2)

5. (4, -3, -5)

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Write the coordinates of the given point. Note that the system is not always in the same orientation.

1. (_____ , _____ , _____)

z+

y+

x+

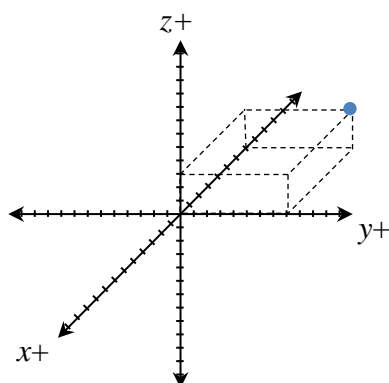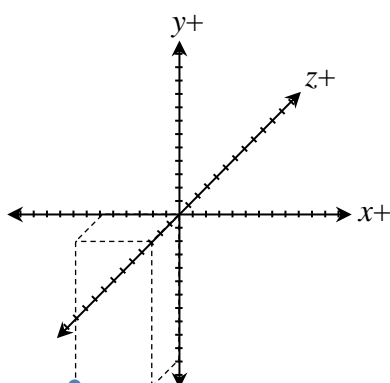2. (_____ , _____ , _____)

y+

z+

x+

3. (_____ , _____ , _____)

z+

x+

y+

4. (_____ , _____ , _____)

z+

y+

x+

5. (_____ , _____ , _____)

y+

z+

x+

6. (_____ , _____ , _____)

z+

x+

y+
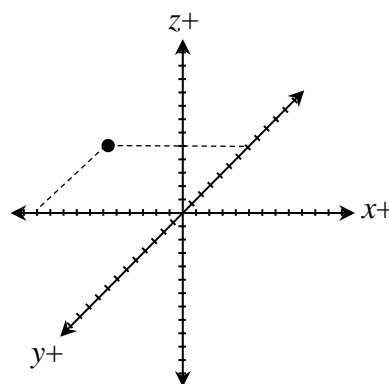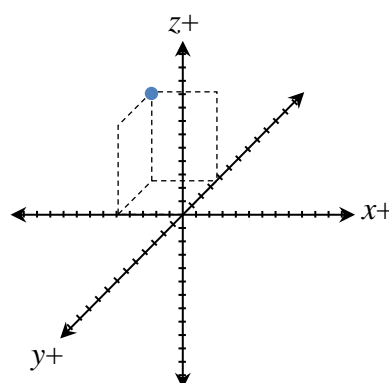
7. If you lay a horizontal ruler on the paper it will pass through the two points shown below. Which of the coordinates of these two points must be equal?

z+

y+

x+