NAME $\qquad$
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## Practice

## Coordinates in Space

Graph Solids in Space In space, you can describe the location of a point using an ordered triple of real numbers. The $x$-, $y$-, and $z$-axes are perpendicular to each other, and the coordinates for point $P$ are the ordered triple ( $-4,6,5$ ). A rectangular prism can be drawn to show perspective.

## Bxamile

Graph the rectangular solid that
contains the ordered triple ( $2,1,-2$ ) and the origin. Label the coordinates of each vertex.

- Plot the $x$-coordinate first. Draw a solid segment from the origin 2 units in the positive direction.
- Plot the $y$-coordinate next. Draw a solid segment 1 unit in the positive direction.
- Plot the $z$-coordinate next. Draw a solid segment 2 units in the negative direction.
- Draw the rectangular prism, using dotted lines for hidden edges of the prism.
- Label the coordinates of each vertex.




## Bxich6es

Graph the rectangular solid that contains the given point and the origin as vertices. Label the coordinates of each vertex.

1. $A(2,1,3)$

2. $P(-2,1,-1)$

3. $G(-1,2,3)$

4. $T(-1,3,2)$

