Non-Calculator Part (continued)

- 4. A rectangle will be rotated 360° about a line which contains the point of intersection of its diagonals and is parallel to a side. What three-dimensional shape will be created as a result of the rotation?
 - A. a cube B. a rectangular prism
 - C. a cylinder D. a sphere
- 5. Line segment *JK* in the coordinate plane has endpoints with coordinates (-4, 11) and (8, -1). Graph \overline{JK} and find two possible locations for point *M* so that *M* divides \overline{JK} into two parts with lengths in a ratio of 1:3.

To graph a line segment, select "segment JK" and then plot two points on the coordinate plane. A segment will connect the points. Select "Point M" and then plot the two points.

