

## LINES

Find parametric equations for the following lines and line segments. Be sure to state the range of values for your parameter.

1. The line segment from  $P = (1, 2, 3)$  to  $Q = (8, 6, 8)$ .
2. The line through  $P = (1, 2, 3)$  and  $Q = (8, 6, 8)$ .
3. The line segment from  $Q = (8, 6, 8)$  to  $P = (1, 2, 3)$ .
4. The line segment from  $P = (2, -3, 5)$  to  $Q = (-4, -1, 0)$ .
5. The line through  $P = (4, 6, 8)$  and  $Q = (-4, -6, -8)$ .