

# LINES AND CIRCLES

TEXT: 1.4

LAST NAME	FIRST NAME	DATE
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**1** (2 points). Find the distance between points  $(-6, -5)$  and  $(1, 3)$ , do not round.

**2** (2 points). Find an equation of the line passing through the origin and the point  $(20, 3)$ , state the answer in the slope-intercept form.

**3** (2 points). Find an equation of the line passing through the points  $(-6, -5)$  and  $(1, 3)$ , state the answer in the slope-intercept form.

4 (2 points). Find the  $y$  coordinate of the point  $P$  on the unit circle, if  $P$  is located in the 4th quadrant, and its  $x$  coordinate is  $1/3$ .

5. State an equation of a circle with radius 9, centered at the point  $(4, -7)$ .

6. Describe the radius and the center of the circle with the equation

$$(x - 11)^2 + (y + 17)^2 = 144$$