NAME _____ DATE _____ PERIOD _____

Practice

Distance From a Point to a Line

Find the distance between the point with the given coordinates and the line with the given equation.

1. $(-1, 5)$, $3x - 4y - 1 = 0$

2. $(2, 5)$, $5x - 12y + 1 = 0$

3. $(1, -4)$, $12x + 5y - 3 = 0$

4. $(-1, -3)$, $6x + 8y - 3 = 0$

Find the distance between the parallel lines with the given equations.

5. $2x - 3y + 4 = 0$
$y = \frac{2}{3}x + 5$

6. $4x - y + 1 = 0$
$4x - y - 8 = 0$

Find equations of the lines that bisect the acute and obtuse angles formed by the lines with the given equations.

7. $x + 2y - 3 = 0$
$x - y + 4 = 0$

8. $9x + 12y + 10 = 0$
$3x + 2y - 6 = 0$