

Name \_\_\_\_\_

Date \_\_\_\_\_

Distance Point to Line & Between Parallel Lines

Find the distance from the given point to the given line.

1. Point  $(-6, 4)$  and line  $y = \frac{1}{3}x - 4$

2. Point  $(-\frac{1}{4}, 5)$  and line  $-x + 2y = 14$

Find the distance between the given parallel lines.

3.  $y = -\frac{1}{3}x + 2$ ,  $y = -\frac{1}{3}x - 8$

4.  $y = 4x + 9$ ,  $y = 4x - 8$

Find the distance from the given point to the given line.

5. Point  $(-6, 8)$  to the line  $y = -3x + 10$

6. point  $(3, 8)$  to the line  $y = \frac{1}{5}x - 3$ .

Find the distance between the given parallel lines.

7. Line #1:  $y = 3x + 2$   
Line #2:  $y = 3x - 2$

8. Line 1:  $y = -\frac{2}{3}x - 7$

Line 2:  $y = -\frac{2}{3}x + 1$