

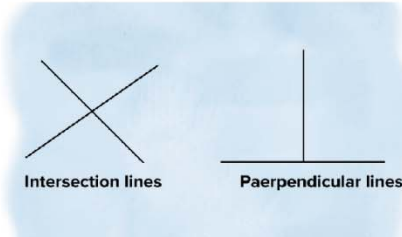
Name :

Class :

## Perpendicular and Intersecting Lines



Perpendicular lines are two lines that intersect at a right angle ( $90^\circ$ ). Intersecting lines are two lines that cross each other at any angle



Determine the given pair of lines are parallel, perpendicular, or intersecting.

1)  $y = -\frac{8}{3}x - 10$  and  $y = \frac{8}{3}x - 5$

Answer: Intersecting Lines

5)  $y = -\frac{5}{2}x + 18$  and  $-5x + 2y = 6$

Answer: Intersecting Lines

2)  $y = -\frac{2}{3}x + 13$  and  $y = -\frac{2}{3}x - 2$

Answer: Parallel Lines

6)  $y = \frac{3}{2}x + 12$  and  $y = \frac{2}{3}x + 1$

Answer: Intersecting Lines

3)  $y = -\frac{1}{3}x + 3$  and  $3x + y = -12$

Answer: Intersecting Lines

7)  $y = \frac{7}{3}x - 8$  and  $y = \frac{7}{3}x + 5$

Answer: Parallel Lines

4)  $y = -\frac{2}{3}x - 5$  and  $-3x + 2y = 6$

Answer: Perpendicular Lines

8)  $y = -x - 1$  and  $x + y = -1$

Answer: Parallel Lines