Name :	Score :
Teacher:	Date :

## Parallel, Perpendicular, and Intersecting Lines

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

1 $y = \frac{3}{2}x - 16$ and $y = \frac{3}{2}x + 3$	5) $y = \frac{1}{2}x - 20$ and $-x + 2y = -20$
$m = \frac{3}{2}$ $m = \frac{3}{2}$	$\frac{m = \frac{1}{2}}{\frac{2y = -\frac{20}{2} + \frac{1x}{2}}{2}}$
Parallel blc slopes are the same	3=-10+12x
Answer:	Answer: Parallel (m==)
2) $y = -\frac{2}{3}x + 17$ and $-6x + 4y = -12$	6) $y = -\frac{7}{4}x + 3$ and $y = \frac{7}{4}x - 3$
$m = -\frac{2}{3}$ $\frac{4y = -12 + 6x}{}$	m=-7 m=7
$m = \frac{6}{4} = \frac{3}{2}$ $y = -3 + \frac{6}{4}x$	Intersect, but are
Answer: Pelpenticular m= 4	Answer: no+
3) $y = -3x + 4$ and $y = \frac{1}{3}x + 3$	7) $y = \frac{2}{3}x - 15$ and $-2x + 3y = 21$
Answer:	Answer:
4) $y = -x - 10$ and $y = -x + 4$	8) $y = -x - 11$ and $x - y = 12$
Answer:	Answer:

