6.2 Perpendiclar and Parallel Lines

* Parallel lines have the same ☐

ex. Determine which line segments are parallel
- EF passes through E(-4, -3) and F(0, 3)
- PQ passes through P(-3, -5) and Q(2, 3)
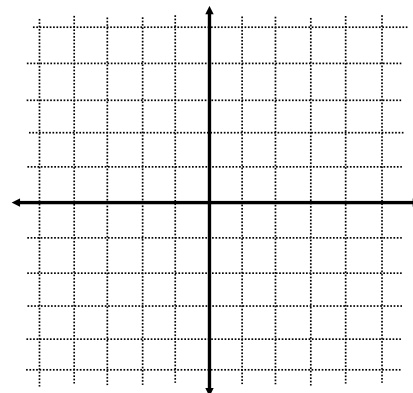- RS passes through R(0, -3) and S(4, 3)

$m_{EF} =$ $m_{PQ} =$ $m_{RS} =$

* What is the relationship between two perpendicular lines? Draw two sets of perpendicular lines... what do you notice?

ex.

$m_{AB} =$ $m_{CD} =$

* Perpendicular lines have slopes that are ☐

ex. -3

ex. Determine the slope of a line that is perpendicular to a line that passes through A(-2, 3) and B(1, -2), the equation for slope is

ex. Is ABCD a parallelogram? Justify your answer.