Deriving Equations of Parallel and Perpendicular Lines	Name
Per	Date

- ***Plot all points and lines on the back***
 - 1. Using the two points A and B shown on the graph,
 - a. Find the equation of \overline{AB} . Label this line j.

b. Derive the equation of line k, which is parallel to \overline{AB} and passes through point C =(4,7).

c. Derive the equation of line l, which is perpendicular to \overline{AB} and goes through D = (2,4).

- 2. If line m has a slope of -2/3 and passes through point E = (-3,-1)
 - a. Using the point and slope, find the equation of m.
 - b. Derive the equation of line n, which is parallel to line m and passes through F = (-3, -3).

c. Derive line o, which is perpendicular to line n and passes through G = (2,-4).

