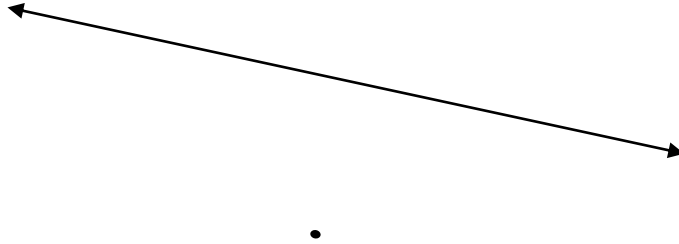


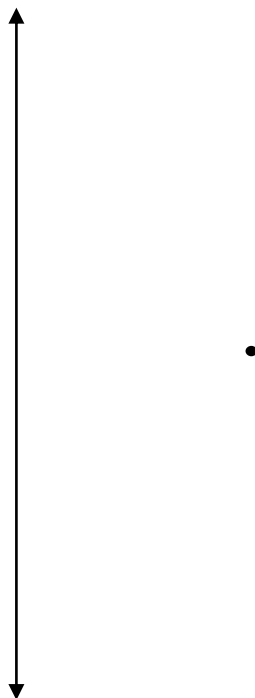
CONSTRUCTIONS PRACTICE HOMEWORK PAGE

For practice 1 & 2, construct a line through the given point that is **parallel** to the given line **using congruent corresponding angles**.

1)

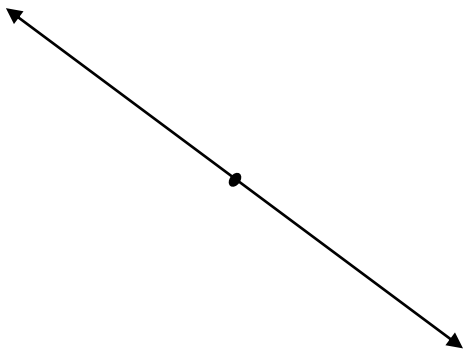


2)

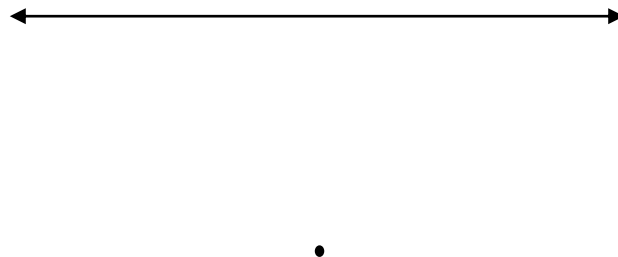


For practice 3-6, construct a line **perpendicular** to the given line through the given point.

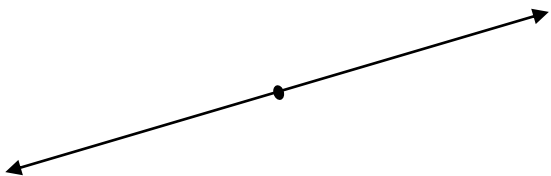
3)



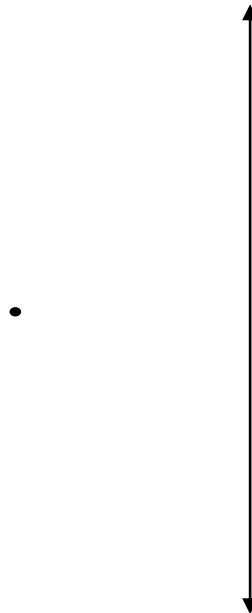
5)



4)

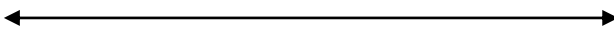


6)

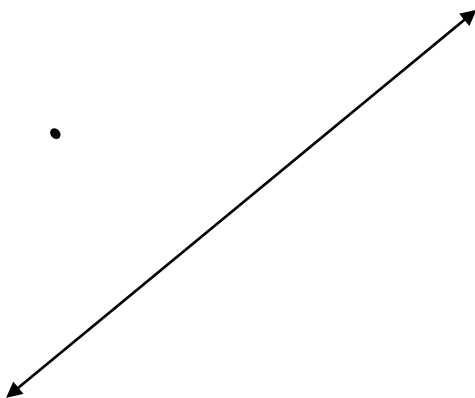


For practice 7 & 8, construct a line **parallel** to the given line through the given point **by using two perpendicular line constructions**.

7)



8)



9) The diagram shows the construction of a line through point P perpendicular to line m . Which statement is demonstrated by this construction?

- 1) If a line is parallel to a line that is perpendicular to a third line, then the line is also perpendicular to the third line.
- 2) The set of points equidistant from the endpoints of a line segment is the perpendicular bisector of the segment.
- 3) Two lines are perpendicular if they are equidistant from a given point.
- 4) Two lines are perpendicular if they intersect to form a vertical line.

