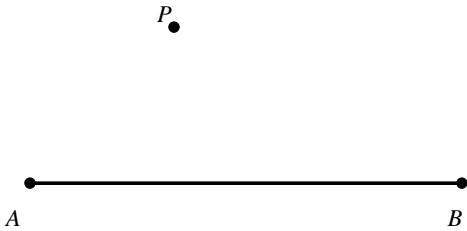
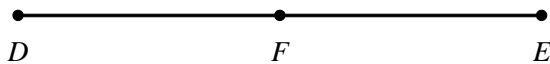


P.I. G.G.19: Construct lines parallel (or perpendicular) to a given line through a given point, using a straightedge and compass, and justify the construction

1. Construct a perpendicular from \overline{AB} that passes through P .



2. Construct a perpendicular to \overline{DE} at F .



3. Construct a line parallel to the given line and through the given point.

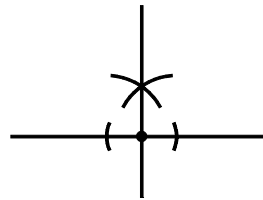


4. Which figure best represents the construction of a segment perpendicular to a given segment through a given point?

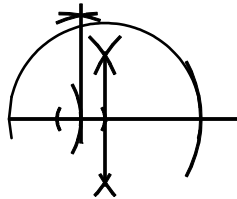
[A]



[B]

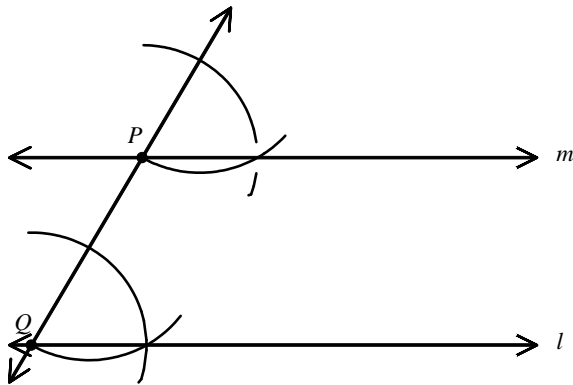


[C]



[D] none of these

5. Which construction is represented by the diagram below?

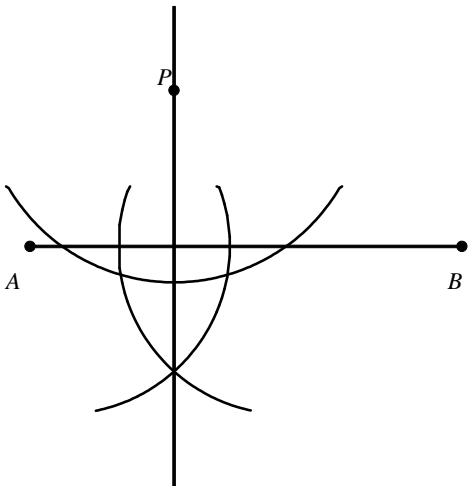


[A] copying line l

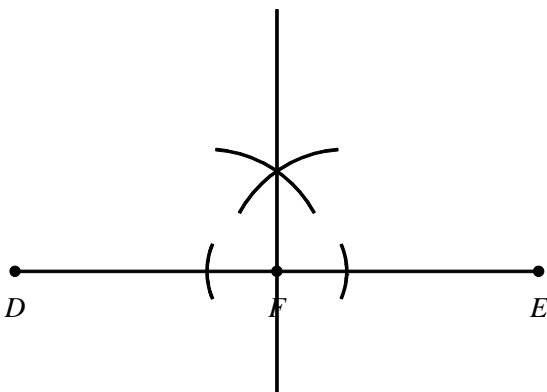
[B] constructing a line parallel to line l

[C] bisecting $\angle P$

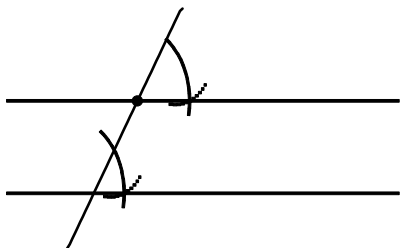
[D] bisecting $\angle Q$



[1] _____



[2] _____



[3] _____

[4] B _____

[5] B _____