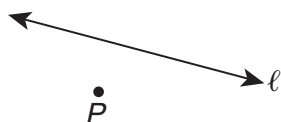


**LESSON** **Geometry Lab Recording Sheet** p. 179

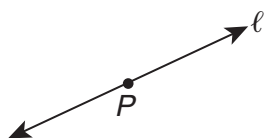
**3-4** **Construct Perpendicular Lines**

**Try This**

Copy each diagram and construct a line perpendicular to line  $\ell$ , through point  $P$ . Use a protractor to verify that the lines are perpendicular.



1. Are the lines perpendicular? \_\_\_\_\_

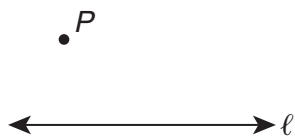


2. Are the lines perpendicular? \_\_\_\_\_

3. Following the steps below to construct two parallel lines. Explain why  $\ell \parallel n$ .

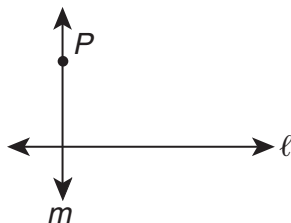
**Step 1**

Given a line  $\ell$ , draw a point  $P$  not on  $\ell$ .



**Step 2**

Construct line  $m$  perpendicular to  $\ell$  through  $P$ .



**Step 3**

Construct line  $n$  perpendicular to  $m$  through  $P$ .

