

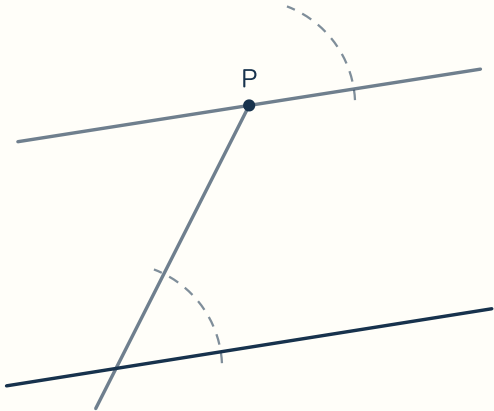
Compass constructions — Construct a parallel line

Name: _____

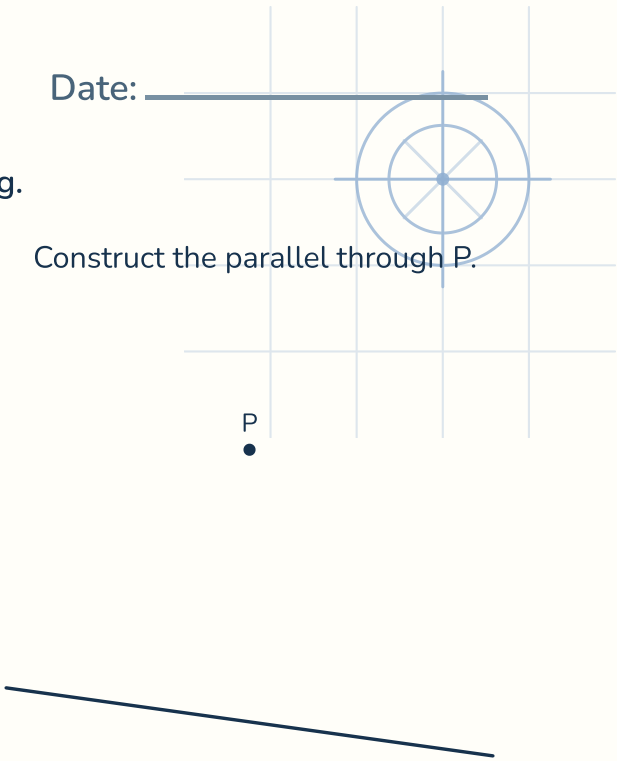
Date: _____

Construct each parallel through P. Leave your arcs showing.

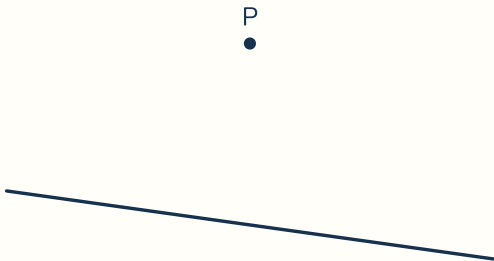
1 Construct the parallel through P.



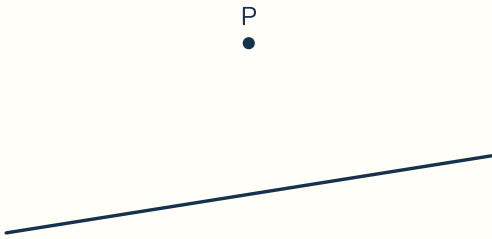
2 Construct the parallel through P.



3 Construct the parallel through P.



4 Construct the parallel through P.



Compass constructions · Construct a parallel line — Answer key

1. Construct the parallel through P. (P 32mm from the line) — 1. Draw any line through P that crosses the given line. Call the crossing X. 2. Copy the angle at X onto the new line, with its vertex at P. 3. The arm you draw is parallel to the given line. 4. The two angles are corresponding angles, which is why the lines cannot meet.

2. Construct the parallel through P. (P 36mm from the line) — 1. Draw any line through P that crosses the given line. Call the crossing X. 2. Copy the angle at X onto the new line, with its vertex at P. 3. The arm you draw is parallel to the given line. 4. The two angles are corresponding angles, which is why the lines cannot meet.

3. Construct the parallel through P. (P 24mm from the line) — 1. Draw any line through P that crosses the given line. Call the crossing X. 2. Copy the angle at X onto the new line, with its vertex at P. 3. The arm you draw is parallel to the given line. 4. The two angles are corresponding angles, which is why the lines cannot meet.

4. Construct the parallel through P. (P 20mm from the line) — 1. Draw any line through P that crosses the given line. Call the crossing X. 2. Copy the angle at X onto the new line, with its vertex at P. 3. The arm you draw is parallel to the given line. 4. The two angles are corresponding angles, which is why the lines cannot meet.