

1-1

1. Turn on ORTHO by clicking the ORTHO button in the status bar (it appears recessed when on) or type ORTHO in the command line, then type ON.
2. Select the existing line (notice that 3 grips appear).
3. Click on the center grip (it becomes HOT, turns red).
4. In response to; Specify stretch point or [Base point/Copy/Undo/exit]: type C (for Copy) and press the Enter key.
5. Drag the line copy upward and click 5 times at varying intervals to place 5 copies above the original line. Notice that the lines are parallel to the original.
6. Exit the command.
7. Press the Escape key to turn off the grips.

Note: Press the Enter key, the Escape key, or the right mouse button to exit commands.

1-2

1. Turn on ORTHO.
2. Choose the Copy Object icon in the Modify toolbar.
3. In response to; Select objects: Click on the arc and press the Enter key.
4. In response to; Specify base point or displacement, or [Multiple]: type M (for Multiple) and press the Enter key.
5. In response to; Specify base point: pick a base point by clicking anywhere on or near the original arc.
6. Drag the arc copy upward and click at varying intervals 4 times to place 4 copies above the original arc.
7. Exit the command.

1-3

1. Choose the Line icon in the Draw toolbar.
2. Choose the Snap to Node icon in the Object Snap toolbar. Pick the left node (the circle with cross hairs) above the A end of line AB and start drawing a line.
3. The line will attach to the center of the node.
4. Choose the Snap to Perpendicular icon in the Object Snap toolbar.
5. Click on line AB.
6. Exit the command.
7. Repeat the above sequence for each of the other lines.

Note: Press the Enter key, the Space bar, or the right mouse button to re-enter the last command.

1-4

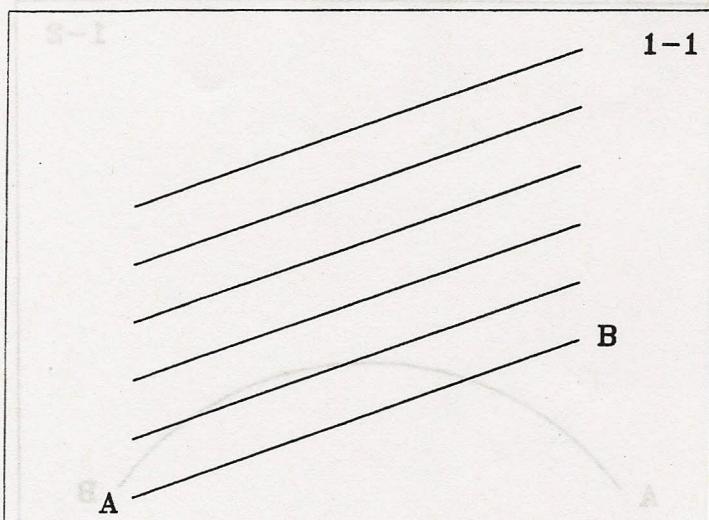
1. Turn on ORTHO.
2. Choose the Line icon in the Draw toolbar.
3. Choose the Snap to Midpoint icon in the Object Snap toolbar and click on line AB.
4. Drag a new vertical line up towards the top border.
5. Click to terminate the line about half way to the top border.
6. Exit the command.

1-5

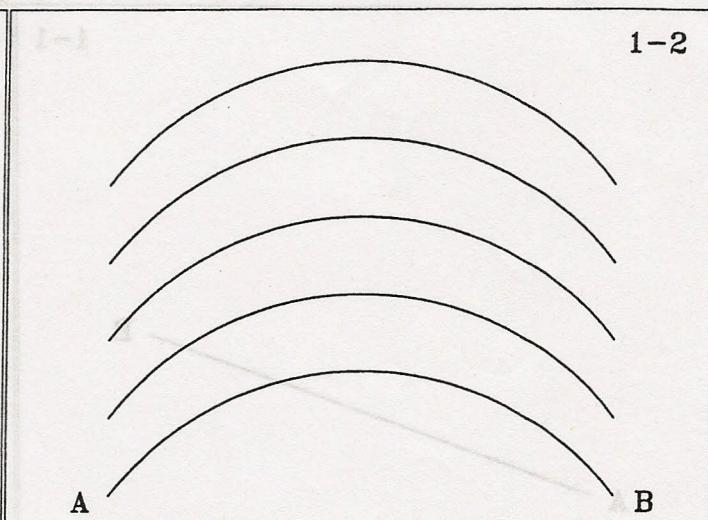
1. Choose the Extend tool in the Modify toolbar.
2. In response to; Select objects: click on line CD and press the Enter key.
3. In response to; Select object to extend or shift-select to extend or [Project/Edge/Undo]: click on line AB.
4. Exit the command.

1-6

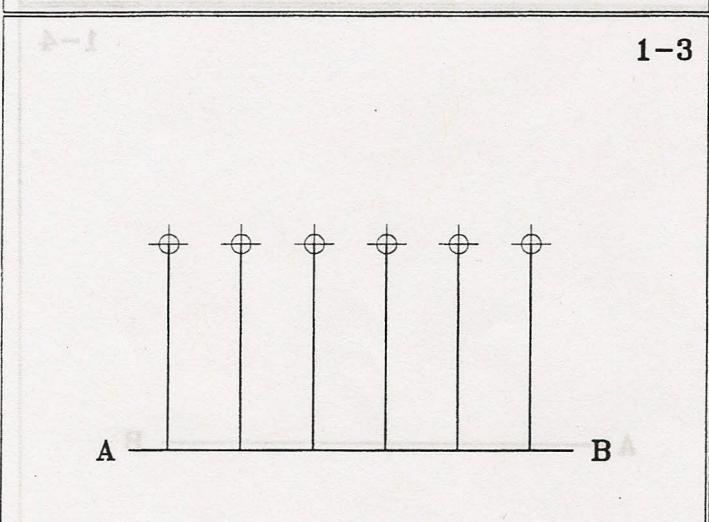
1. Choose the Trim tool in the Modify toolbar.
2. In response to; Select objects: click on line AB and press the Enter key.
3. In response to; Select object to trim or shift-select to trim or [Project/Edge/Undo]: click near the upper end of line CD.
4. Exit the command.



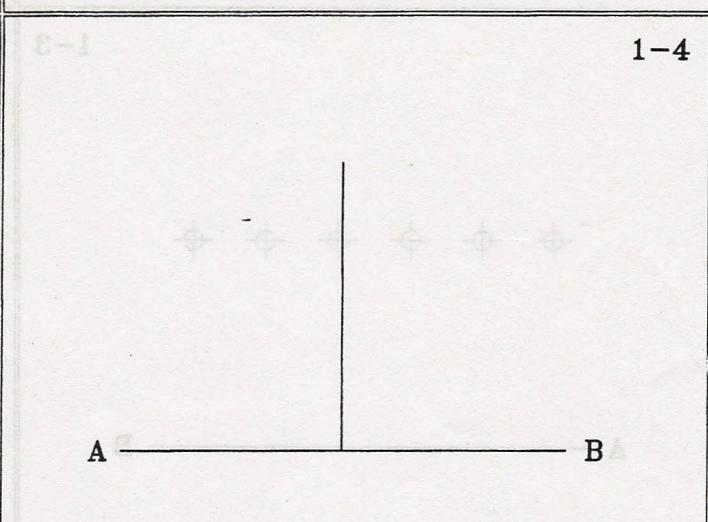
Draw 5 parallel lines directly above line AB.



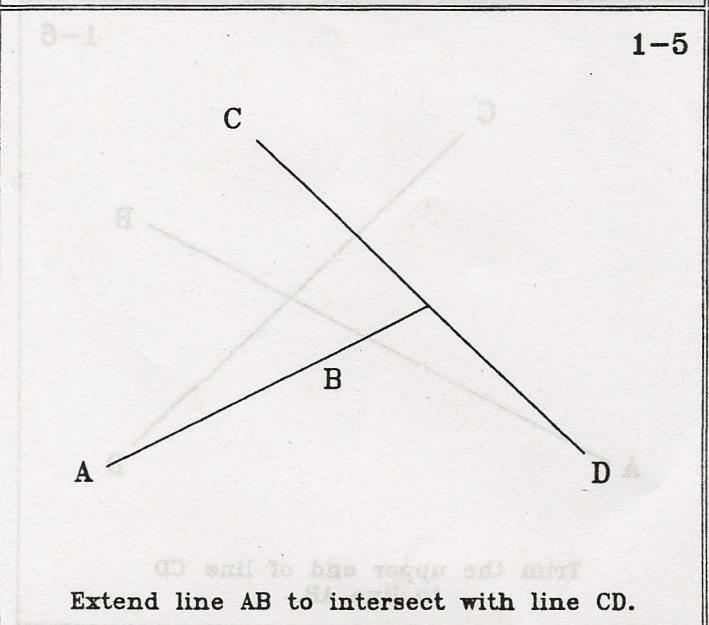
Draw 4 arcs directly above arc AB.



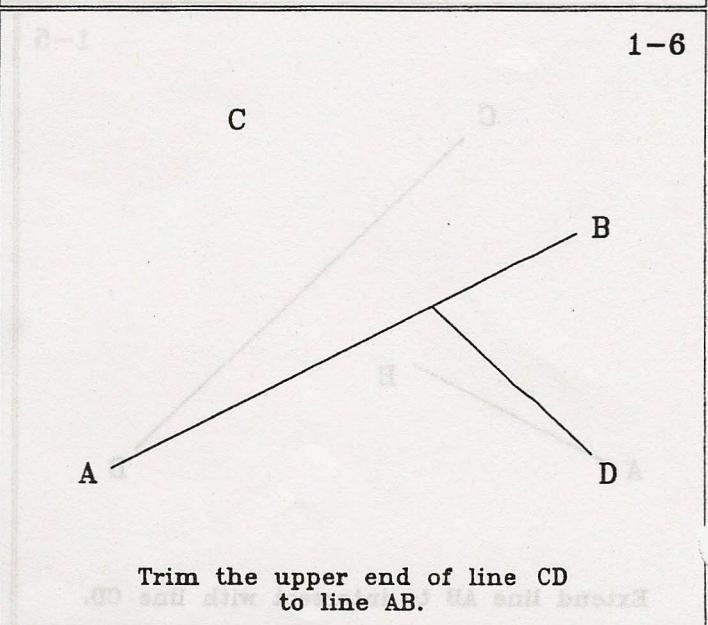
Draw a line from each node perpendicular to line AB.



Draw a perpendicular bisector to line AB.



Extend line AB to intersect with line CD.



Trim the upper end of line CD to line AB.