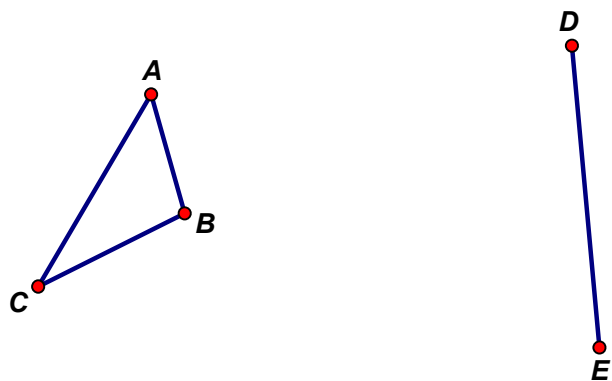
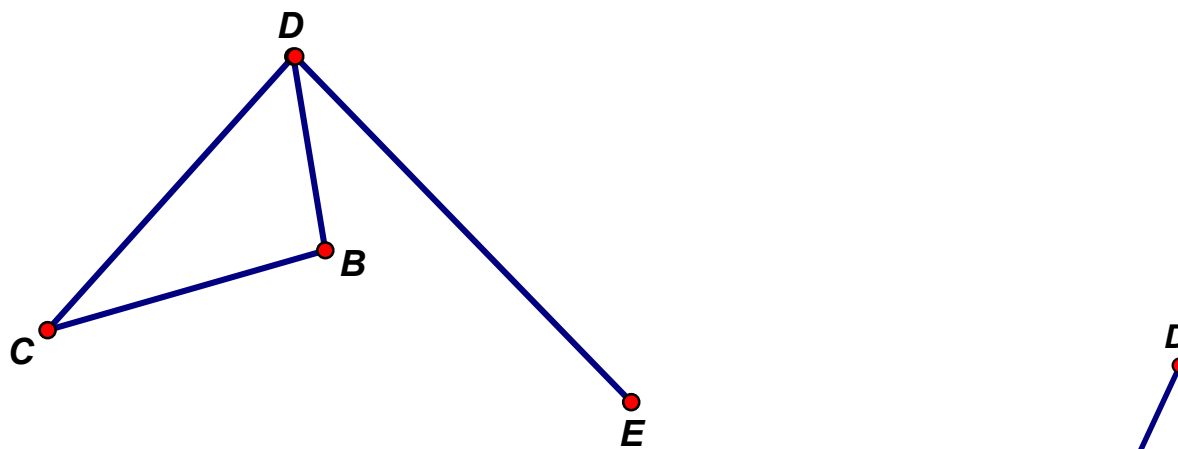


For this worksheet, you may use only a compass and straight edge, and you may use folded paper or tracing paper to get equal angles—no rulers

1. Find a rotation point  $P$  so you can rotate  $A$  to  $D$ . Rotate  $B$  and  $C$  by the same angle around  $P$ , and label their image  $B'$  and  $C'$



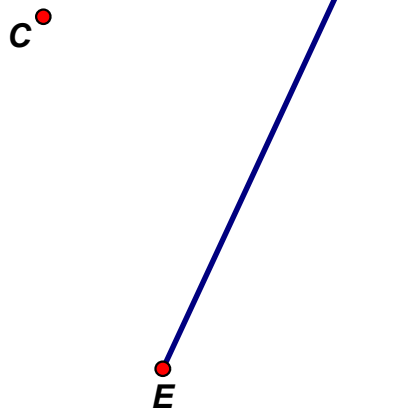
2. Using  $D$  as a rotation point, rotate  $B$  onto segment  $DE$ . Rotate  $C$  by the same angle. Label the new points  $B'$  and  $C'$



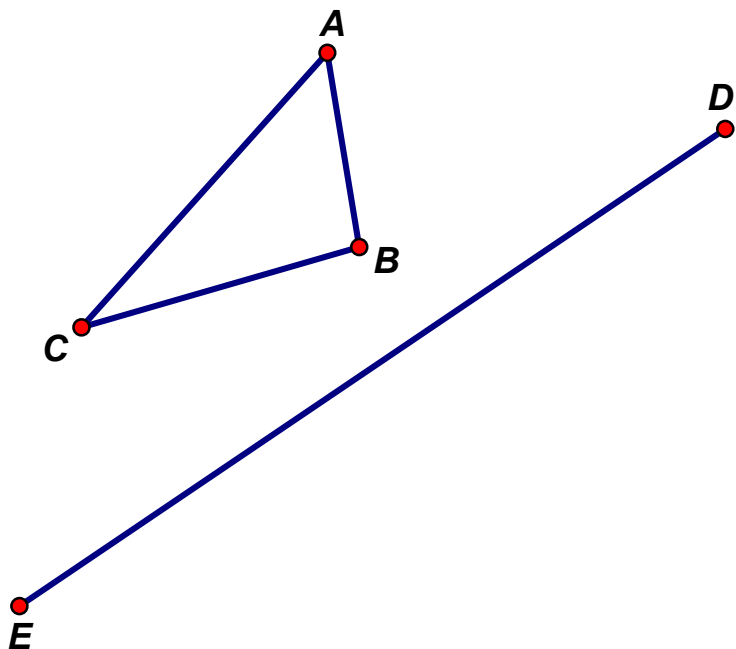
3.

Using only a compass, reflect  $C$  across line  $DE$ .

Label its image  $C'$ .



4. Using only a compass reflect  $A$ ,  $B$  and  $C$  across line  $DE$ . Label the image points  $A'$ ,  $B'$ ,  $C'$



5. Find an appropriate rotation point  $P$ , and rotate  $A$  to  $D$ , and  $B$  to  $B'$  and  $C$  to  $C'$  by the same rotation.

Then rotate  $B'$  around  $D$  onto line  $DE$ . Rotate  $C'$  to a new point  $C''$  by the same rotation.

Reflect  $C''$  across line  $DE$  to a new point. Call it  $C'''$ .

