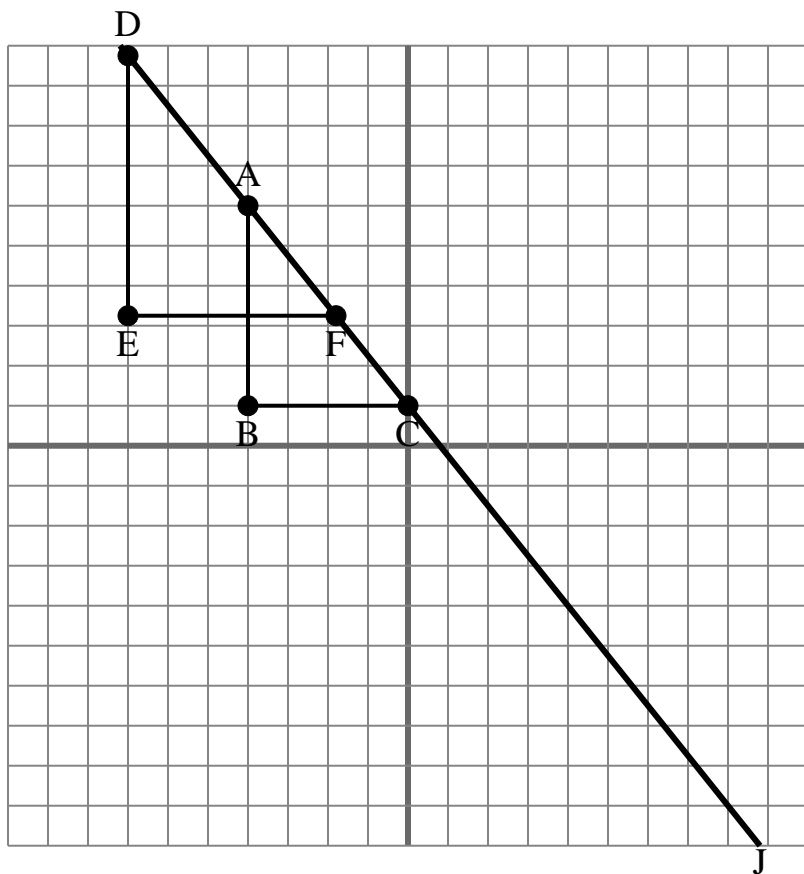Name:

The grid below contains the triangles ABC, DEF and line J. Determine if each statement is true or false based on the information in the coordinate plane.
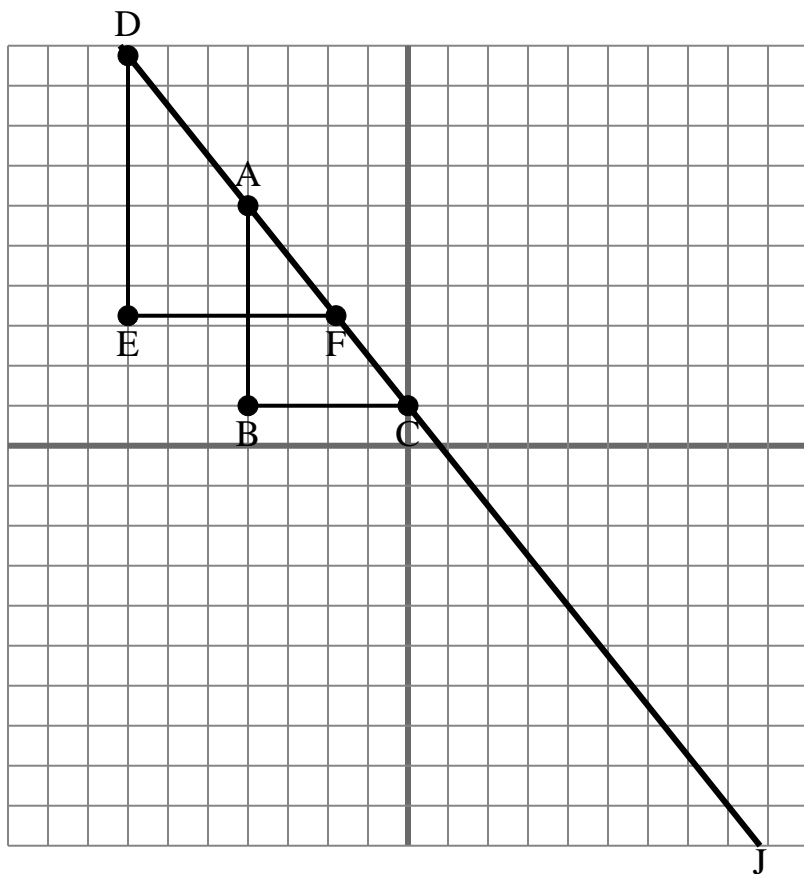
1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

1) The slope of $\overline{AD}$ is equal to the slope of $\overline{BC}$.

2) The slope of $\overline{AC}$ is equal to the slope of line J.

3) The slope of $\overline{AF}$ is equal to the slope of line J.

4) The slope of $\overline{AC}$ is equal to the slope of $\overline{DF}$.

5) The slope of $\overline{AC}$ is equal to the slope of $\overline{DE}$.

6) The slope of $\overline{AB}$ is equal to the slope of line J.

7) The slope of line J is equal to $^{AB}/_{BC}$

8) The slope of $\overline{AF}$ is equal to the slope of $\overline{EF}$.

9) The slope of $\overline{BC}$ is equal to the slope of line J.

10) The slope of line J is equal to $^{EF}/_{DE}$

The grid below contains the triangles ABC, DEF and line J. Determine if each statement is true or false based on the information in the coordinate plane.

1. _____ **false** _____

2. _____ **true** _____

3. _____ **true** _____

4. _____ **true** _____

5. _____ **false** _____

6. _____ **false** _____

7. _____ **true** _____

8. _____ **false** _____

9. _____ **false** _____

10. _____ **false** _____

1) The slope of $\overline{AD}$ is equal to the slope of $\overline{BC}$.

2) The slope of $\overline{AC}$ is equal to the slope of line J.

3) The slope of $\overline{AF}$ is equal to the slope of line J.

4) The slope of $\overline{AC}$ is equal to the slope of $\overline{DF}$.

5) The slope of $\overline{AC}$ is equal to the slope of $\overline{DE}$.

6) The slope of $\overline{AB}$ is equal to the slope of line J.

7) The slope of line J is equal to $^{AB}/_{BC}$

8) The slope of $\overline{AF}$ is equal to the slope of $\overline{EF}$.

9) The slope of $\overline{BC}$ is equal to the slope of line J.

10) The slope of line J is equal to $^{EF}/_{DE}$