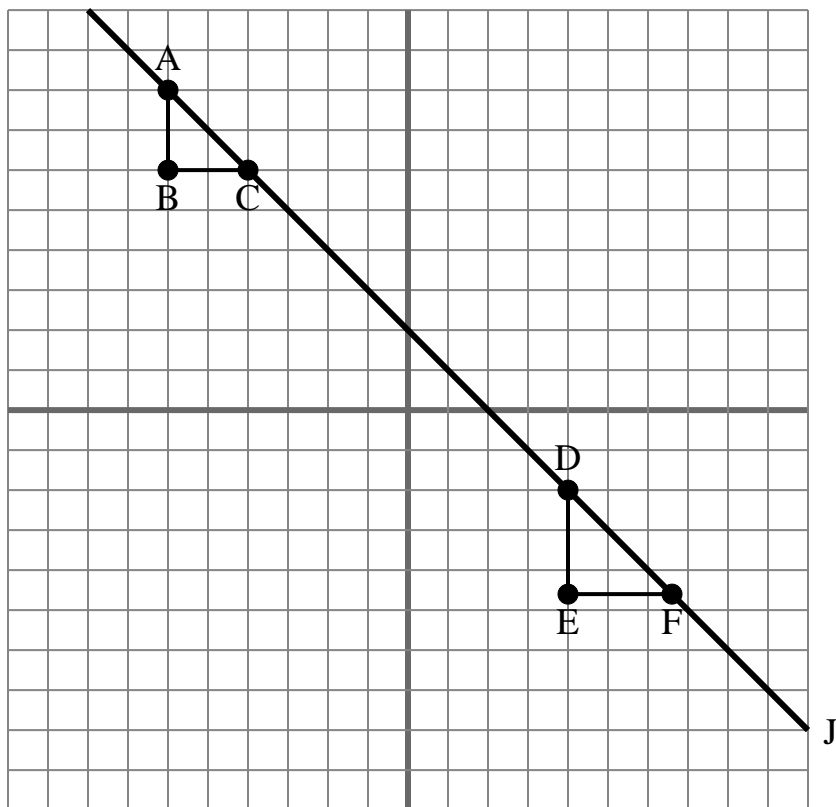




The grid below contains the triangles ABC, DEF and line J. Determine if each statement is true or false based on the information in the coordinate plane.

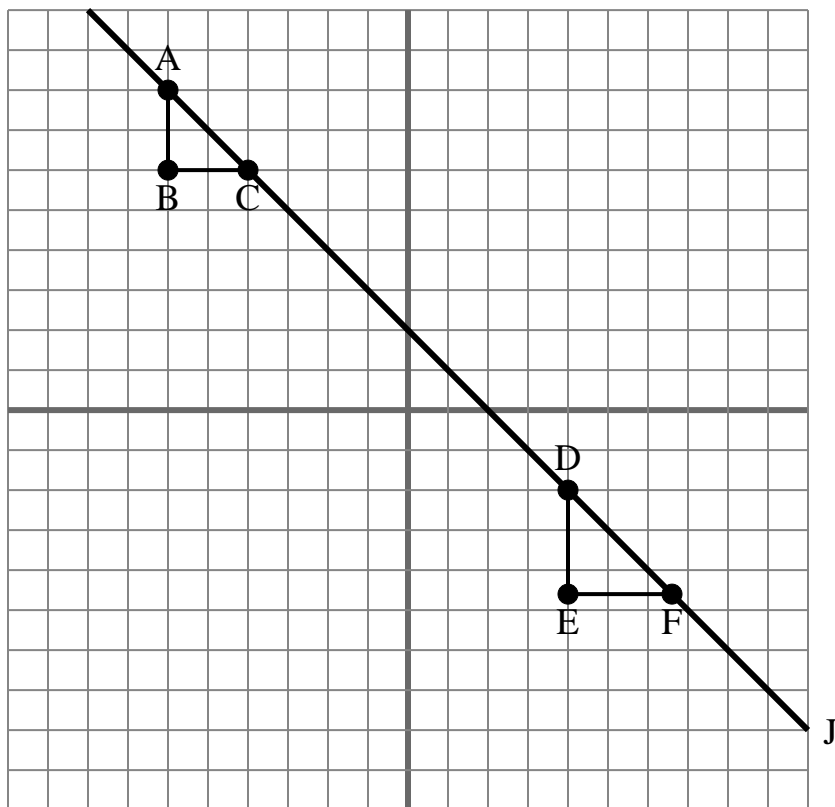
**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

- 1) The slope of  $\overline{AF}$  is equal to the slope of  $\overline{CD}$ .
- 2) The slope of  $\overline{AF}$  is equal to the slope of  $\overline{EF}$ .
- 3) The slope of  $\overline{EF}$  is equal to the slope of line J.
- 4) The slope of line J is equal to  $\frac{BC}{AB}$ .
- 5) The slope of  $\overline{AC}$  is equal to the slope of  $\overline{DE}$ .
- 6) The slope of  $\overline{AF}$  is equal to the slope of line J.
- 7) The slope of  $\overline{AD}$  is equal to the slope of  $\overline{BC}$ .
- 8) The slope of  $\overline{AC}$  is equal to the slope of line J.
- 9) The slope of  $\overline{AD}$  is equal to the slope of line J.
- 10) The slope of line J is equal to  $\frac{DE}{EF}$ .



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.

**Answers**

1. **true**
2. **false**
3. **false**
4. **false**
5. **false**
6. **true**
7. **false**
8. **true**
9. **true**
10. **true**

- 1) The slope of  $\overline{AF}$  is equal to the slope of  $\overline{CD}$ .
- 2) The slope of  $\overline{AF}$  is equal to the slope of  $\overline{EF}$ .
- 3) The slope of  $\overline{EF}$  is equal to the slope of line J.
- 4) The slope of line J is equal to  $\frac{BC}{AB}$ .
- 5) The slope of  $\overline{AC}$  is equal to the slope of  $\overline{DE}$ .
- 6) The slope of  $\overline{AF}$  is equal to the slope of line J.
- 7) The slope of  $\overline{AD}$  is equal to the slope of  $\overline{BC}$ .
- 8) The slope of  $\overline{AC}$  is equal to the slope of line J.
- 9) The slope of  $\overline{AD}$  is equal to the slope of line J.
- 10) The slope of line J is equal to  $\frac{DE}{EF}$ .