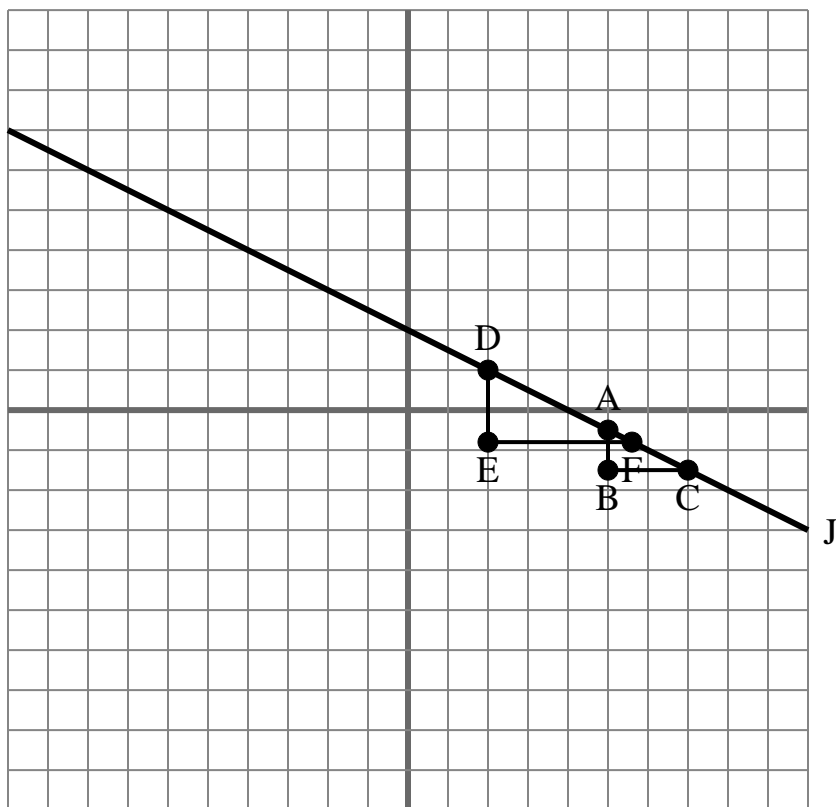




The grid below contains the triangles ABC, DEF and line J. Determine if each statement is true or false based on the information in the coordinate plane.

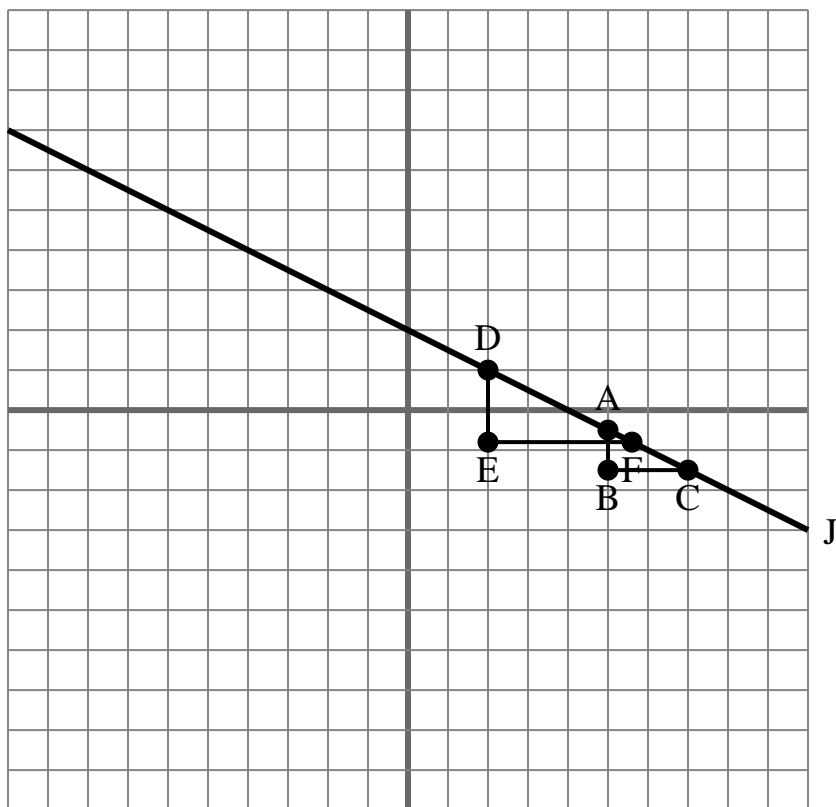
Answers

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

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



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.

Answers1. **true**2. **true**3. **false**4. **false**5. **true**6. **true**7. **false**8. **false**9. **true**10. **false**

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