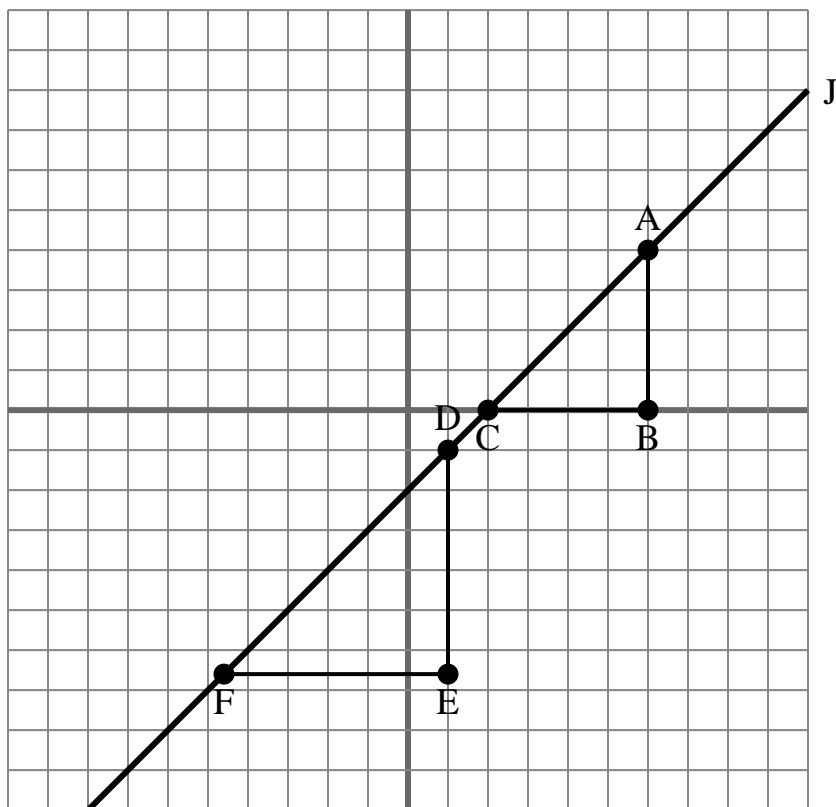




The grid below contains the triangles ABC, DEF and line J. Determine if each statement is true or false based on the information in the coordinate plane.

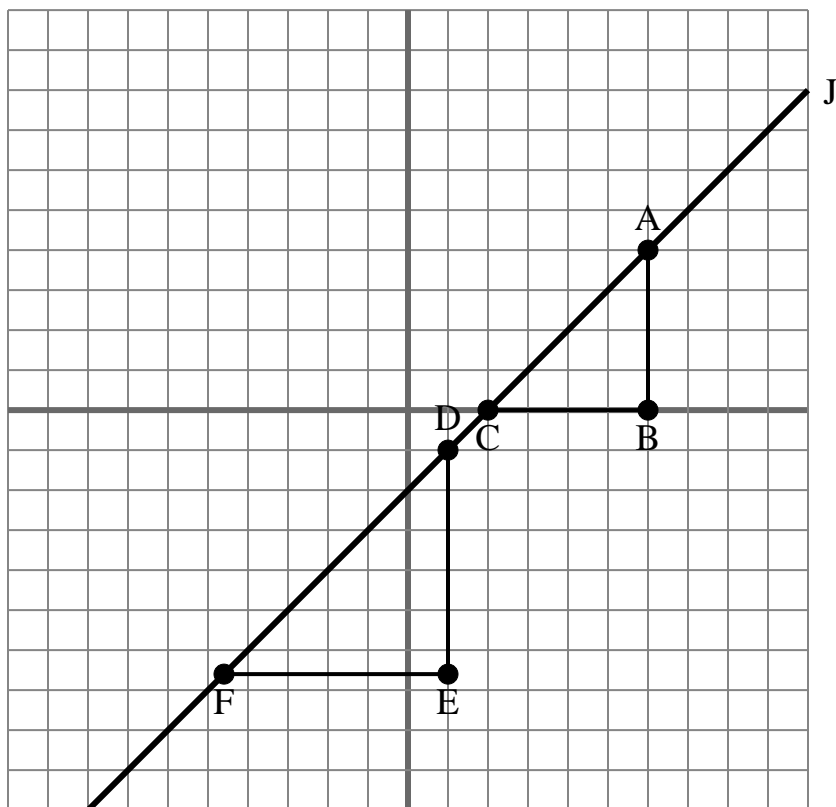
**Answers**

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

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



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