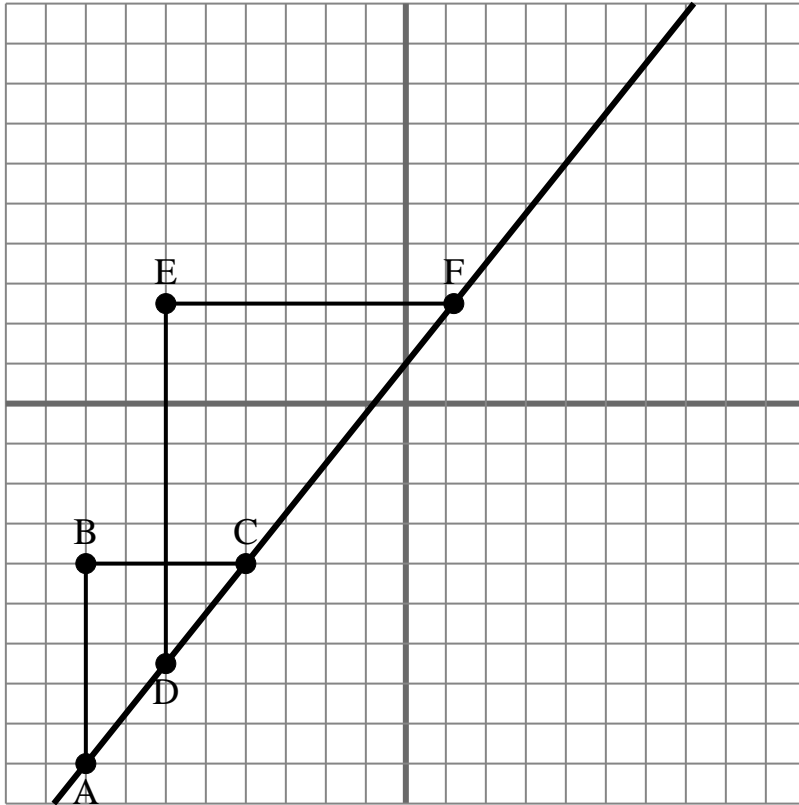




The grid below contains the triangles ABC, DEF and line J. Determine if each statement is true or false based on the information in the coordinate plane.

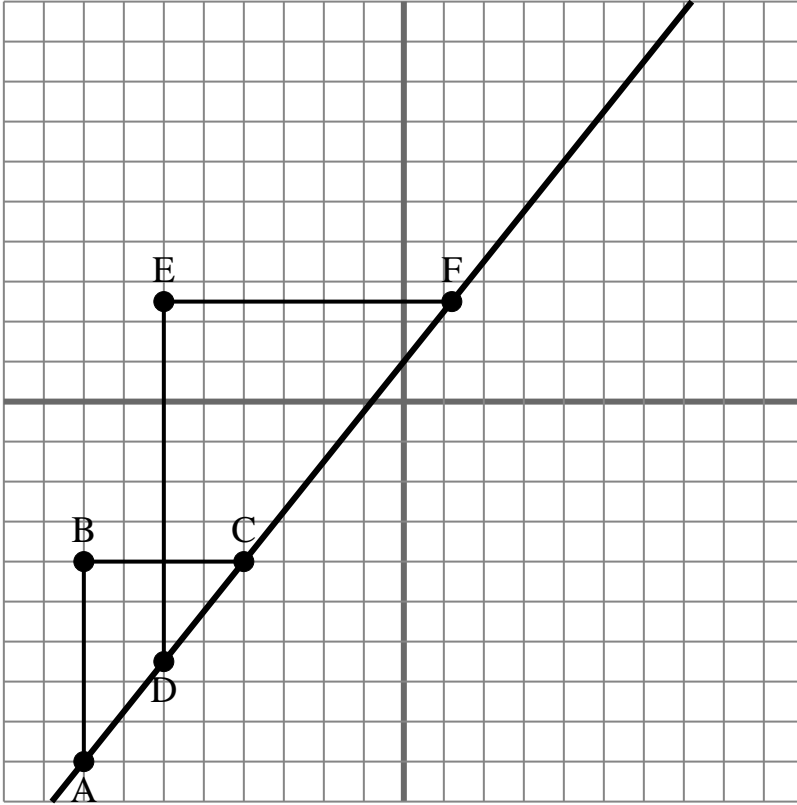
Answers

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

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



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. false
5. false
6. false
7. true
8. true
9. false
10. false

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