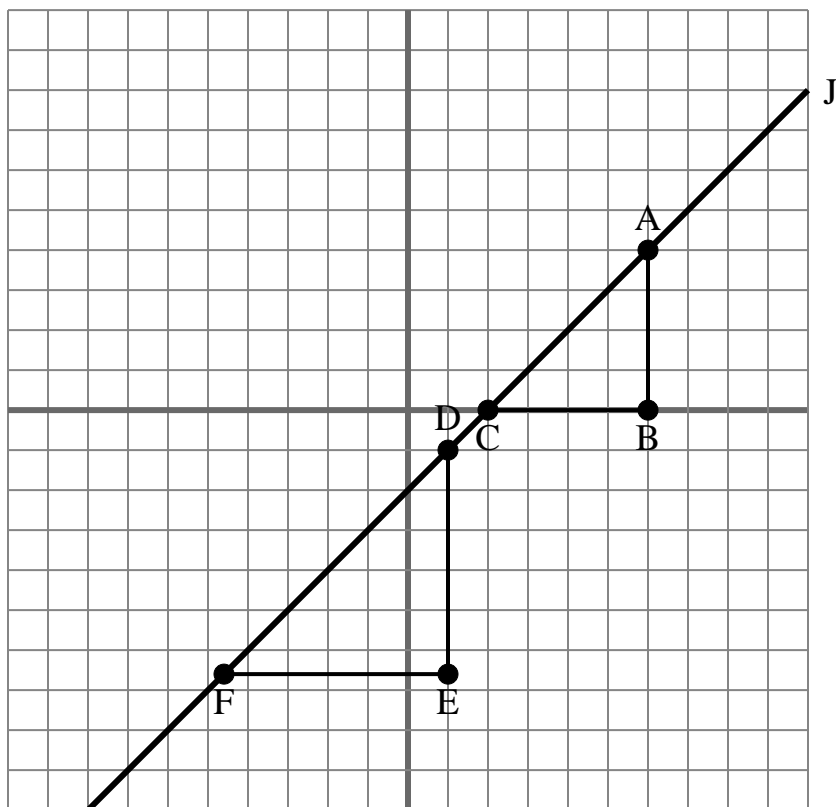




The grid below contains the triangles ABC, DEF and line J. Determine if each statement is true or false based on the information in the coordinate plane.

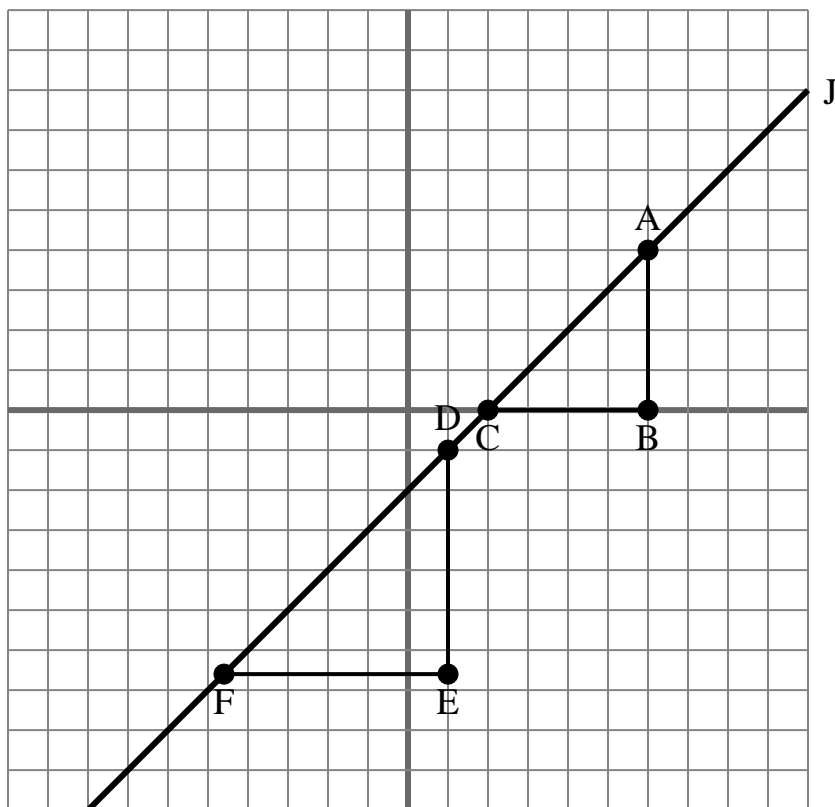
**Answers**

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} .