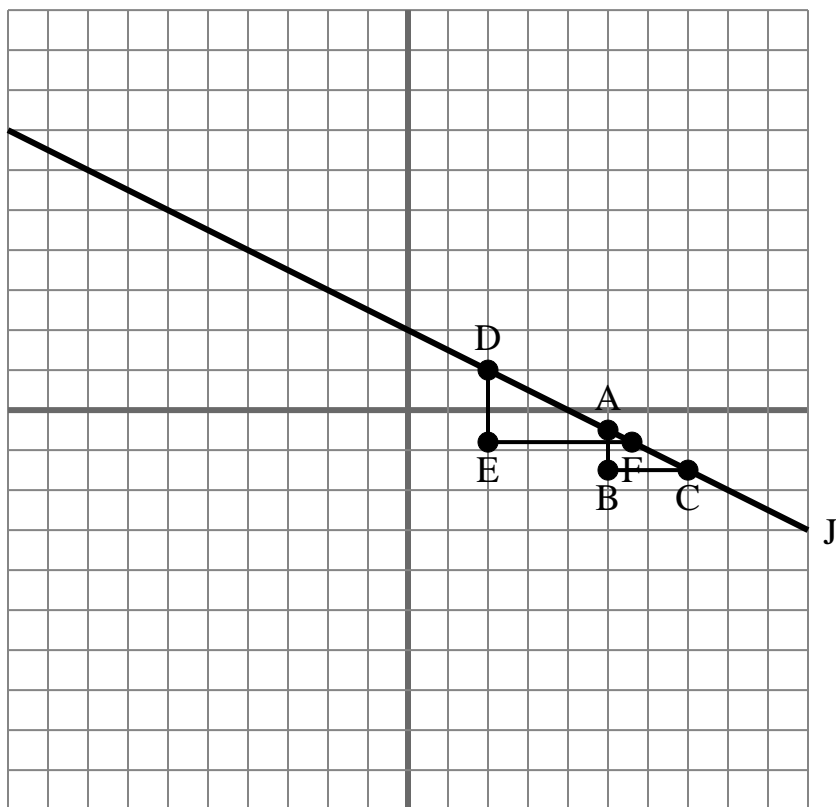




The grid below contains the triangles ABC, DEF and line J. Determine if each statement is true or false based on the information in the coordinate plane.

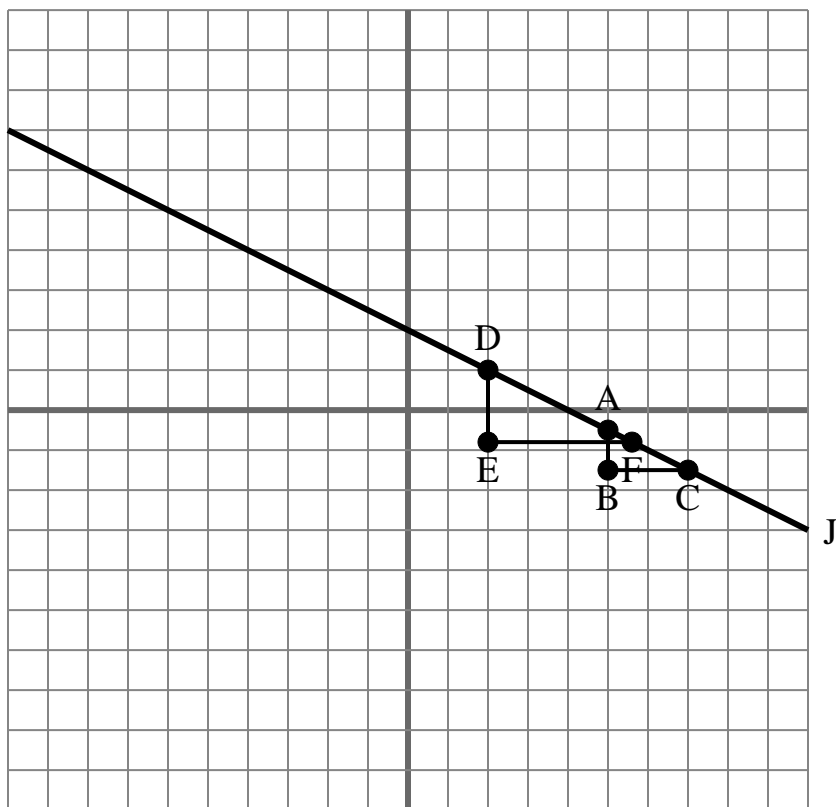
**Answers**

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.

**Answers**

1. **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} .