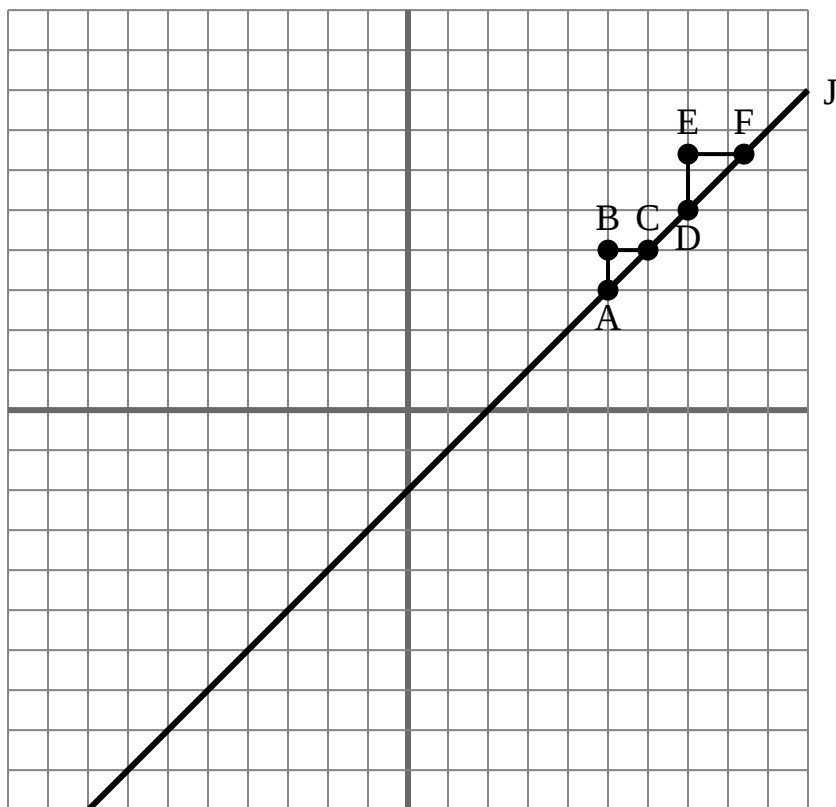




The grid below contains the triangles ABC, DEF and line J. Determine if each statement is true or false based on the information in the coordinate plane.

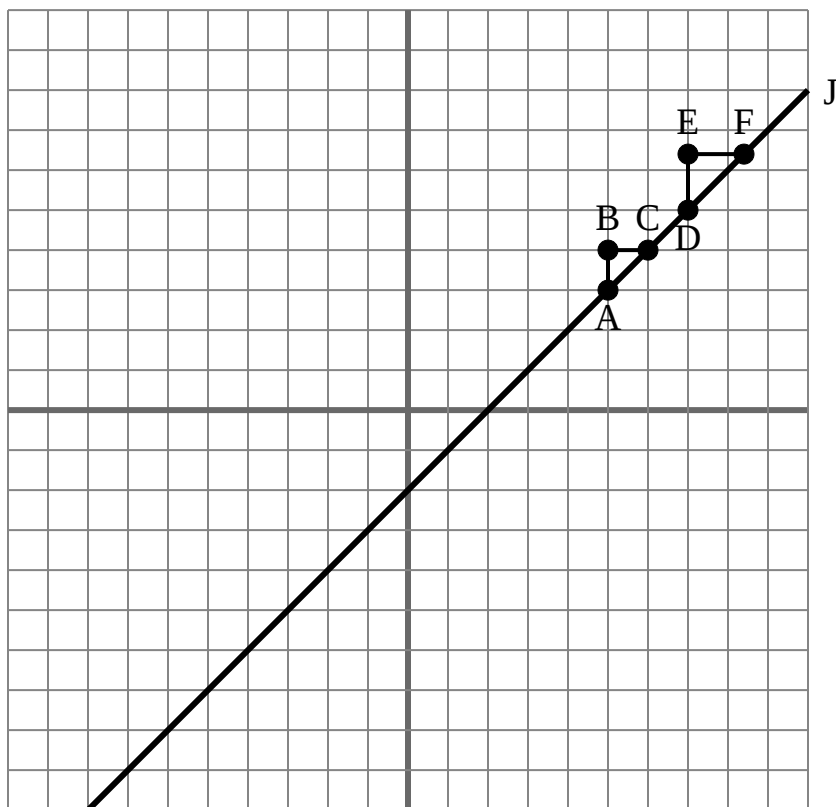
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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



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