

Subsets of Lines

- I. Given D, E, F, and G are collinear points as shown in the diagram. answer true or false.

Example:
 $\overrightarrow{EF} \subset \overrightarrow{DG}$

True - all of \overrightarrow{EF} is included in \overrightarrow{DG} so \overrightarrow{EF} is a subset of \overrightarrow{DG} .

| | |
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| 1. $\overrightarrow{FG} \subset \overrightarrow{EG}$ | |
| 2. $\overrightarrow{EF} \subset \overrightarrow{EF}$ | |
| 3. $\overrightarrow{DE} \subset \overrightarrow{EF}$ | |
| 4. $\overrightarrow{ED} \subset \overrightarrow{EG}$ | |
| 5. $\overrightarrow{DE} \subset \overrightarrow{ED}$ | |
| 6. $\overrightarrow{EF} \subset \overrightarrow{GE}$ | |

II. If D, E, F, and G are collinear points as shown in the diagram, answer the following:

Example: $\overrightarrow{EF} \cap \overrightarrow{GD}$

Solution: \overline{EG} or \overline{GE}

7. $\overrightarrow{FD} \cap \overrightarrow{EF}$

8. $\overrightarrow{FD} \cap \overrightarrow{FG}$

9. $\overrightarrow{ED} \cup \overrightarrow{EG}$

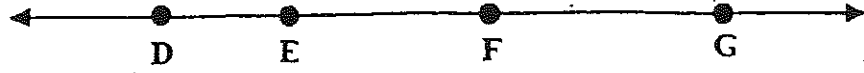
10. $\overline{ED} \cap \overline{EF}$

11. $\overrightarrow{ED} \cap \overrightarrow{FE}$

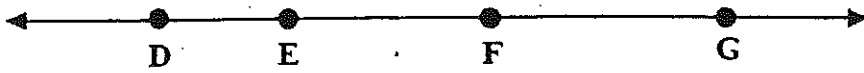
12. $\overrightarrow{EG} \cap \overrightarrow{GE}$

13. $\overrightarrow{EG} \cup \overrightarrow{GE}$

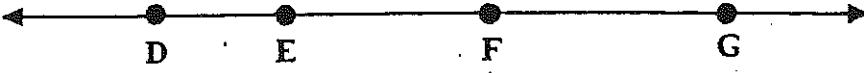
14. $\overrightarrow{FD} \cap \overrightarrow{FG}$



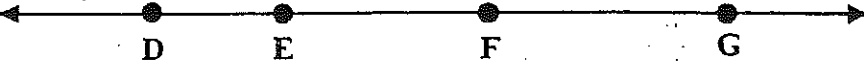
15. $\overrightarrow{ED} \cup \overrightarrow{EG}$



16. $\overrightarrow{ED} \cup \overrightarrow{EG}$



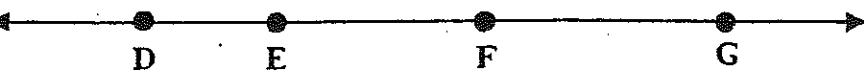
17. $\overrightarrow{EF} \cap \overrightarrow{FE}$



18. $\overrightarrow{DF} \cap \overrightarrow{DF}$



19. $\overrightarrow{GF} \cap \overrightarrow{EF}$



20. $\overrightarrow{EF} \cap \overrightarrow{FE}$

