

Write the following sets in interval notation, and then write the compliment of the set.

Example:

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|---|---------------------------------|
| 1. $A = \{x (x \leq 0) \vee (x > 5)\}$ | 6. $F = \{x 0 \leq x < 4\}$ |
| (a) $A = (-\infty, 0] \cup (5, \infty)$ | (a) $F =$ |
| (b) $\bar{A} = (0, 5]$ | (b) $\bar{F} =$ |
| 2. $B = \{x -1 \leq x \leq 1\}$ | 7. $G = \{x 3 < x \leq 8\}$ |
| (a) $B =$ | (a) $G =$ |
| (b) $\bar{B} =$ | (b) $\bar{G} =$ |
| 3. $C = \{x x > 0\}$ | 8. $F \cap G =$ |
| (a) $C =$ | 9. $F \cup G =$ |
| (b) $\bar{C} =$ | 10. $\bar{F} \cap \bar{G}$ |
| 4. $D = \{x (0 \leq x < 1) \vee (1 < x < 3)\}$ | 11. $D \cup E$ |
| (a) $D =$ | 12. $D \cap E$ |
| (b) $\bar{D} =$ | 13. $\bar{D} \cap E$ |
| 5. $E = \{x (1 \leq x \leq 2) \vee (3 \leq x \leq 4)\}$ | 14. $\overline{\bar{D} \cap E}$ |
| (a) $E =$ | |
| (b) $\bar{E} =$ | |