

Graph each set and write the solution in the opposite notation then it was given.

1. $(-\infty, 2) \cap (-4, \infty)$

2. $\{x \mid 0 \leq x < 10\}$

3. $\{x \mid x \leq 5\} \cup \{x \mid x \geq 11\}$

4. $(-5, 0) \cap [-1, \infty)$

Factor completely.

5. $5x^2 - 7x - 6$

6. $x^2 - 7x + 6$

7. $2x^2 + 5xy + 3y^2$

8. $2x^4 + 5x^3 - 3x^2$

9. $25x^2 - 196$

10. $2x^2 + 9x + 63$

11. $121x^2 - 169$

12. $125x^3 + y^3$

13. $6x^2 + 5x - 4$

14. $x^3 - 216$

15. $39x^3 + 169x^2$

16. $7x^2 + 11xy - 6y^2$

17. $343x^3 + y^3$

18. $64x^3 - 125$

19. $2x^2 - 5x - 7$

20. $16x^2 - 8x + 1$