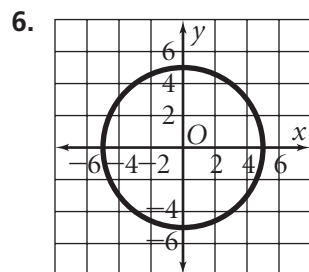
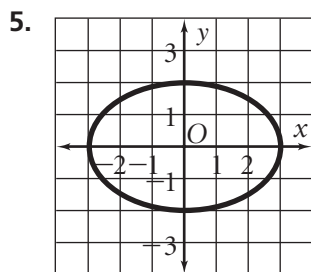
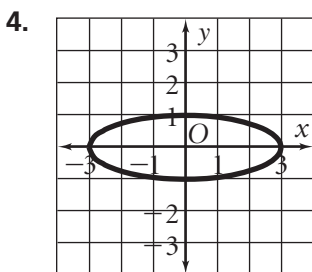
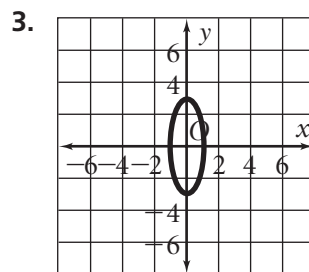
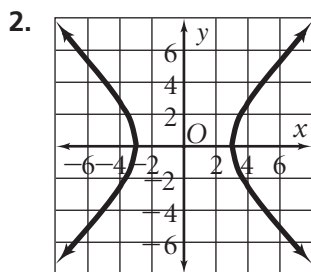
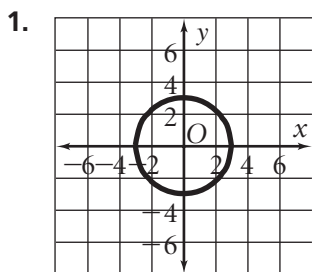


Practice 10-1

Exploring Conic Sections

Identify the center and intercepts of each conic section. Give the domain and range of each graph.



Graph each equation. Identify the conic section and its lines of symmetry. Then find the domain and range.

- | | | |
|----------------------------|----------------------------|----------------------------|
| 7. $x^2 + 4y^2 = 4$ | 8. $4x^2 + y^2 - 4 = 0$ | 9. $9x^2 + 4y^2 = 36$ |
| 10. $x^2 - y^2 = 4$ | 11. $x^2 - y^2 - 9 = 0$ | 12. $4x^2 - 9y^2 - 36 = 0$ |
| 13. $5x^2 + 5y^2 = 45$ | 14. $2x^2 + 2y^2 - 4 = 0$ | 15. $8x^2 + 8y^2 = 40$ |
| 16. $3x^2 + 6y^2 - 6 = 0$ | 17. $3x^2 - 6y^2 = 6$ | 18. $6y^2 - 3x^2 - 6 = 0$ |
| 19. $5x^2 - 5y^2 = 25$ | 20. $5x^2 + 5y^2 = 125$ | 21. $9x^2 + 16y^2 = 144$ |
| 22. $16y^2 - 9x^2 = 144$ | 23. $9x^2 - 16y^2 = 144$ | 24. $9x^2 + 9y^2 = 1$ |
| 25. $x^2 - y^2 = 49$ | 26. $2x^2 + 2y^2 - 32 = 0$ | 27. $2x^2 + 8y^2 = 32$ |
| 28. $y^2 - x^2 + 4 = 0$ | 29. $49x^2 - y^2 - 48 = 1$ | 30. $x^2 + y^2 - 40 = 9$ |
| 31. $5x^2 - 5y^2 - 45 = 0$ | 32. $25x^2 + y^2 = 25$ | 33. $9x^2 + 36y^2 = 36$ |
| 34. $25x^2 - y^2 - 25 = 0$ | 35. $y^2 - x^2 = 9$ | 36. $4y^2 - 9x^2 = 36$ |
| 37. $x^2 + y^2 = 4$ | 38. $x^2 + y^2 = 36$ | 39. $3x^2 + 3y^2 - 9 = 0$ |
| 40. $4x^2 + 9y^2 - 36 = 0$ | 41. $6x^2 + y^2 - 12 = 0$ | 42. $9x^2 + y^2 = 9$ |

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