

Conics 4 – Parabolas

Graph each of the following parabolas. Be sure to label all important points on the graph.

1. $(x - 4)^2 = 12(y - 3)$

2. $(x + 2)^2 = 16(y - 3)$

3. $(x - 2)^2 = -12(y + 6)$

4. $(y + 3)^2 = 20(x + 3)$

5. $(y - 4) = -12(x - 7)$

6. $x^2 = 20y$

7. $(x + 5)^2 = 4y$

8. $(x - 4)^2 = 8y$

9. $(x - 3)^2 = -4y$

10. $(x - 3)^2 = 4(y + 3)$

11. $(x + 3)^2 = 8(y + 1)$

12. $(x - 8)^2 = 12(y - 7)$

13. $y^2 = 8(x - 2)$

14. $(x + 2)^2 = 8(y - 7)$

15. $(x + 5)^2 = -8(y - 9)$

16. $(x - 4)^2 = 12(y - 5)$

17. $(y - 5)^2 = -4(x - 7)$

18. $(y - 1)^2 = -4(x + 2)$

19. $x^2 = 20(y + 3)$

20. $(x - 6)^2 = 4(y - 6)$

21. $(x - \frac{1}{2})^2 = 6(y + 3)$

22. $(y - 3)^2 = 12(x - 4)$

23. $(x + 7)^2 = -16(y - 2)$

24. $(x - 3)^2 = 10(y + 7)$

25. $(y + 2)^2 = 8(x - 4)$

26. $(y + 6)^2 = -12(x - 3)$

27. $(x + 4)^2 = 16(y + 3)$

28. $(y + 4)^2 = 16(x + 3)$

29. $(y - 5)^2 = 12(x + 3)$

30. $(x + 4)^2 = 4(y + 4)$

31. $x^2 = y$

32. $y^2 = x$

33. $x^2 = -y$

34. $y^2 = -x$

35. $x^2 = y - 4$

36. $x^2 = y + 3$

37. $(x - \frac{2}{3})^2 = 12(y + 7\frac{2}{3})$

38. $(x - 3)^2 = -14(y + 2\frac{1}{2})$

39. $(y - 7)^2 = 13(x + \frac{21}{4})$

40. $(y + \frac{2}{3}) = -11(x - 7)$

41. $(x + 8\frac{1}{2})^2 = -24(y - 7\frac{2}{7})$

42. $(y - 3)^2 = 48(x + 3)$

43. $(x + 3.8)^2 = 14.4(y - 7.4)$

44. $(y + 2.8)^2 = -17.2(x - 4.7)$

45. $(y + 7\frac{2}{9})^2 = -18\frac{1}{4}(x - \frac{7}{4})$

46. $(x - 3\frac{7}{9})^2 = 16\frac{1}{5}(y + 6\frac{2}{5})$

47. $(x + 2.3)^2 = 20.4(y - 7.3)$

48. $(y - 2.5)^2 = -14.7(x + 3)$

49. $(x - 2.7)^2 = 30.5(y + 13.8)$

50. $(y - 7.8)^2 = -1.7(x - 3.2)$

51. $(y - \frac{1}{2})^2 = 16\frac{2}{9}(x - 7\frac{2}{5})$

52. $(x + 3\frac{1}{3})^2 = -27\frac{2}{3}(y - 4\frac{7}{8})$