

Conics 6 – Parabolas

Put each of the following parabolas into standard form. Then graph each, be sure to label all important points.

1. $x^2 + 6x - 12y + 57 = 0$
2. $x^2 + 12x - 16y - 44 = 0$
3. $y^2 - 16x + 12y - 44 = 0$
4. $x^2 + 6x - 8y + 65 = 0$
5. $x^2 + 8x - 4y + 28 = 0$
6. $y^2 + 16x - 8y + 64 = 0$
7. $y^2 - 12x - 8y + 100 = 0$
8. $y^2 + 12x - 10y + 61 = 0$
9. $x^2 + 14x + 12y + 133 = 0$
10. $y^2 + 8x + 6y - 15 = 0$
11. $x^2 - 14x - 12y + 133 = 0$
12. $y^2 + 4x - 8y + 16 = 0$
13. $x^2 + 8x + 12y - 20 = 0$
14. $y^2 + 16x - 12y + 100 = 0$
15. $x^2 - 14x - 12y + 97 = 0$
16. $x^2 + 8x + 8y - 40 = 0$
17. $y^2 - 20x - 14y - 11 = 0$
18. $x^2 - 14x - 28y + 245 = 0$
19. $y^2 + 16x + 6y - 119 = 0$
20. $x^2 + 14x - 8y + 73 = 0$
21. $y^2 + 8x + 6y - 15 = 0$
22. $y^2 - 16x + 8y = 0$
23. $y^2 + 4x - 8y = 0$
24. $x^2 + 10x - 20y + 65 = 0$
25. $x^2 + 6x + 8y + 9 = 0$
26. $y^2 + 8x - 14y - 7 = 0$
27. $x^2 + 6x + 12y + 57 = 0$
28. $x^2 + 6x + 20y + 89 = 0$
29. $x^2 - 16x + 8y = 0$
30. $y^2 + 12x - 18y + 117 = 0$
31. $y^2 - x - 14y + 46 = 0$
32. $y^2 - x + 4y + 1 = 0$
33. $y^2 - 4x - 16y + 65 = 0$
34. $x^2 + 6x - 6y + 21 = 0$
35. $y^2 - 10x - 10y + 55 = 0$
36. $x^2 + 7x - 10y - 27\frac{3}{4} = 0$
37. $x^2 + 6x + 10y - 31 = 0$
38. $x^2 - 12x + 6y = 0$
39. $y^2 + 14x + 7y - 78.75 = 0$
40. $x^2 - 6x - 13y + 105.2 = 0$
41. $y^2 + 15.2x - 4.2y - 103.51 = 0$
42. $x^2 + 8x - 15y + 121 = 0$
43. $x^2 - 9.4x + 12.25y - 86.5675 = 0$
44. $y^2 + 27x + 15.6y - 101.16 = 0$
45. $y^2 - 12.5x - 13.6y + 136.24 = 0$
46. $x^2 + 10x + 10.28y + 68.176 = 0$
47. $x^2 + 6\frac{4}{9}x - 12y + 44\frac{143}{162} = 0$
48. $y^2 - 14x - 1\frac{3}{4}y - 100\frac{47}{64} = 0$
49. $y^2 + 19x + 5\frac{1}{3}y - 99\frac{55}{72} = 0$
50. $x^2 - 8\frac{4}{9}x - 12y - 15\frac{41}{81} = 0$
51. $x^2 + 14\frac{4}{7}x + 16y + 46\frac{167}{245} = 0$
52. $x^2 - 6\frac{4}{7}x - 12\frac{2}{9}y + 67\frac{68}{147} = 0$
53. $y^2 - 21\frac{2}{13}x - 4y + 152\frac{1}{13} = 0$
54. $y^2 - 24\frac{6}{7}x + 15\frac{3}{5}y + 309\frac{72}{175} = 0$
55. $x^2 - 6\frac{4}{7}x + 16y - 111\frac{128}{147} = 0$
56. $y^2 - \frac{1}{4}x + 13\frac{1}{3}y + 46\frac{7}{36} = 0$
57. $y^2 + 14x - 18\frac{1}{2}y + 89\frac{9}{16} = 0$
58. $x^2 + 8\frac{2}{5}x + 17\frac{3}{7}y - 23\frac{2}{75} = 0$
59. $x^2 - 14\frac{14}{19}x + 13\frac{4}{5}y + 104\frac{1888}{3971} = 0$
60. $y^2 + 25\frac{1}{8} + 10\frac{5}{7} - 74\frac{697}{1176} = 0$