

For the following exercises, convert the given Cartesian equation to a polar equation.

16. $x = 3$

17. $y = 4$

18. $y = 4x^2$

19. $y = 2x^4$

20. $x^2 + y^2 = 4y$

21. $x^2 + y^2 = 3x$

22. $x^2 - y^2 = x$

23. $x^2 - y^2 = 3y$

24. $x^2 + y^2 = 9$

25. $x^2 = 9y$

26. $y^2 = 9x$

27. $9xy = 1$

For the following exercises, convert the equation from rectangular to polar form and graph on the polar axis.

55. $5x - y = 6$

56. $2x + 7y = -3$

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

58. $(x + 2)^2 + (y + 3)^2 = 13$

59. $x = 2$

60. $x^2 + y^2 = 5y$

61. $x^2 + y^2 = 3x$