

## 10 6 Identifying Conic Sections Answers

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### 10 6 Identifying Conic Sections

10.6: Conic Sections in Polar Coordinates. Identify a conic in polar form. Graph the polar equations of conics. Define conics in terms of a focus and a directrix. Most of us are familiar with orbital motion, such as the motion of a planet around the sun or an electron around an atomic nucleus.

### 10.6: Conic Sections in Polar Coordinates - Mathematics ...

626 Chapter 10 Quadratic Relations and Conic Sections CLASSIFYING A CONIC FROM ITS EQUATION The equation of any conic can be written in the form  $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$  which is called a in  $x$  and  $y$ . The expression  $B^2 - 4AC$  is called the of the equation and can be used to determine which type of conic the equation represents. Classifying a Conic a.

### 10.6 Graphing and Classifying Conics

Usually these constants are referred to as  $a$ ,  $b$ ,  $h$ ,  $v$ ,  $f$ , and  $d$ . Not every conic has all these constants, but conics that do have them are affected in the same way by changes in the same constant. Conic sections can come in all different shapes and sizes: big, small, fat, skinny, vertical, horizontal, and more.

### How to Identify the Four Conic Sections in Equation Form ...

10.  $x^2 + y^2 = 25$  11.  $\frac{x^2}{4} + \frac{y^2}{9} = 1$  12.  $x^2 - y^2 = 12$  13.  $xy = -2$  14.  $x^2 + y^2 = 13$  15.  $x^2 + y^2 = 14$  16.  $x^2 + y^2 = 15$  17.  $x^2 + y^2 = 16$  18.  $x^2 + y^2 = 17$  19.  $x^2 + y^2 = 18$  20.  $x^2 + y^2 = 19$  21.  $x^2 + y^2 = 20$  22.  $x^2 + y^2 = 21$  23.  $x^2 + y^2 = 22$  24.  $x^2 + y^2 = 23$  25.  $x^2 + y^2 = 24$  26.  $x^2 + y^2 = 25$  27.  $x^2 + y^2 = 26$  28.  $x^2 + y^2 = 27$  29.  $x^2 + y^2 = 28$  30.  $x^2 + y^2 = 29$  31.  $x^2 + y^2 = 30$  32.  $x^2 + y^2 = 31$  33.  $x^2 + y^2 = 32$  34.  $x^2 + y^2 = 33$  35.  $x^2 + y^2 = 34$  36.  $x^2 + y^2 = 35$  37.  $x^2 + y^2 = 36$  38.  $x^2 + y^2 = 37$  39.  $x^2 + y^2 = 38$  40.  $x^2 + y^2 = 39$  41.  $x^2 + y^2 = 40$  42.  $x^2 + y^2 = 41$  43.  $x^2 + y^2 = 42$  44.  $x^2 + y^2 = 43$  45.  $x^2 + y^2 = 44$  46.  $x^2 + y^2 = 45$  47.  $x^2 + y^2 = 46$  48.  $x^2 + y^2 = 47$  49.  $x^2 + y^2 = 48$  50.  $x^2 + y^2 = 49$  51.  $x^2 + y^2 = 50$  52.  $x^2 + y^2 = 51$  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