

- 2 What is the equation of a circle, with center (2, 3), through the point (5, -1)?
 - **A** $(x-2)^2 + (y-3)^2 = 25$
 - **B** $(x-5)^2 + (y+1)^2 = -25$
 - **C** $(x+3)^2 + (y+4)^2 = 5$
 - **D** $(x-3)^2 + (y-2)^2 = 36$



3 Which of the following sketches best represents the conic section given in this equation?





4 Which type of conic section is represented by the equation given below?

 $6x^2$

$$6x^2 - 6y^2 + 8x - 12y - 121 = 0$$

- A Circle
- B ParabolaC EllipseD Hyperbola
- **5** Complete the square as needed in order to put this conic section equation into standard form.

9y + 12x - 17 = 0

- **A** $(x+1)^2 = 9(y+3)$
 - **B** $(x+1)^2 = \frac{3}{2}(y+3)$
- **C** $(x-3)^2 = \frac{3}{2}(y+27)$

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

