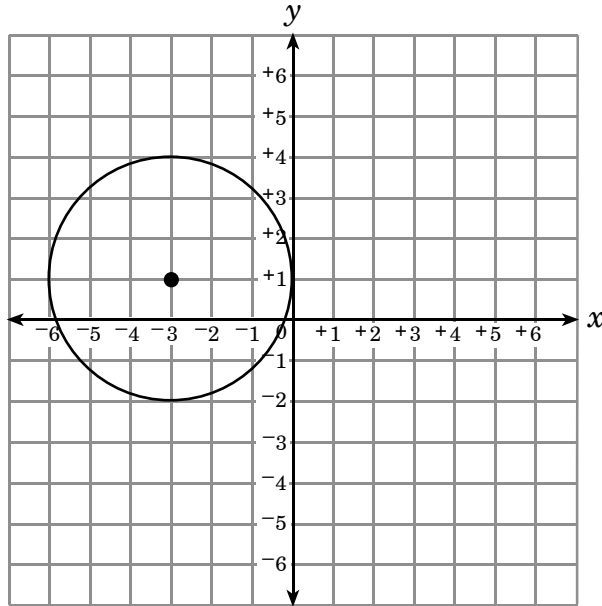


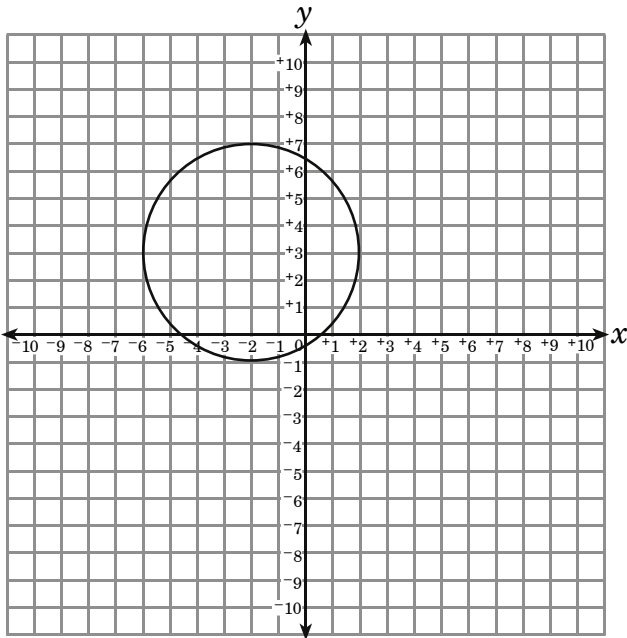
1. Which of the following is an equation for the circle shown?



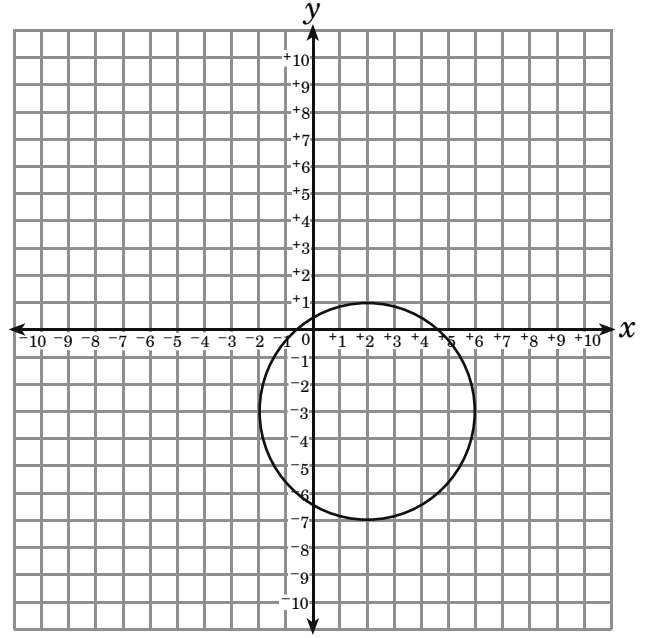
- A $x^2 + y^2 + 6x - 2y + 1 = 0$
- B $x^2 + y^2 - 6x - 2y + 1 = 0$
- C $x^2 + y^2 + 6x + 2y + 7 = 0$
- D $x^2 + y^2 - 6x - 2y + 7 = 0$
-
2. Which is an equation for the parabola that has vertex $(-2, 3)$ and passes through the point $(-1, 5)$?
- A $y = x^2 + 4x + 7$
- B $y = x^2 - 4x + 7$
- C $y = 2x^2 - 8x + 11$
- D $y = 2x^2 + 8x + 11$
3. Which curve opens to the left?
- A $y^2 = 8x + 24$
- B $y = \frac{x^2}{8} - 3$
- C $y^2 = -8x - 24$
- D $y = -\frac{x^2}{8} + 3$

4. Which is the graph of a circle with equation $x^2 + 4x + y^2 - 6y = 3$?

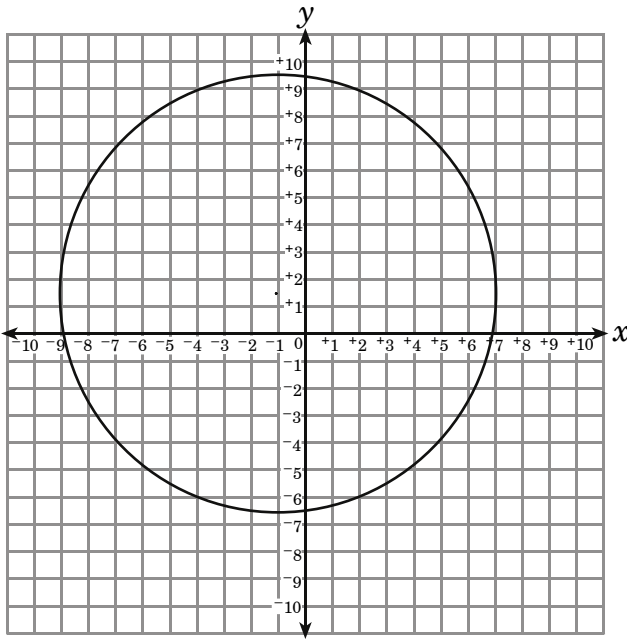
A



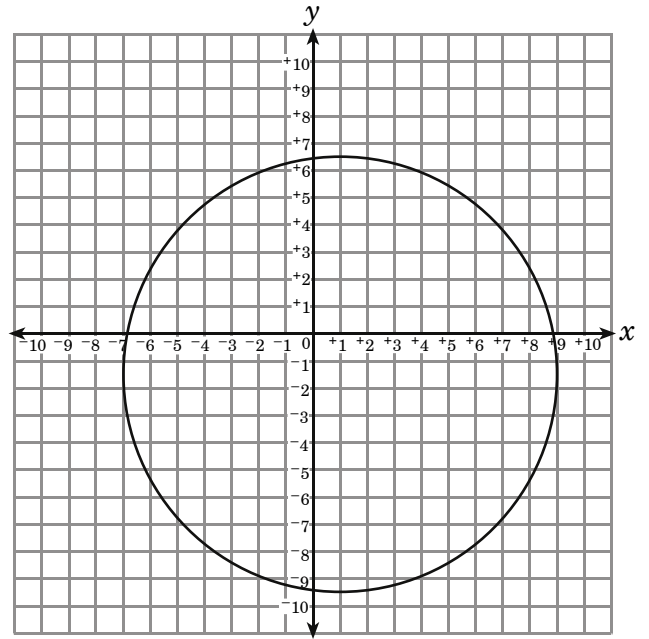
B



C



D



5. Which of the following points is in the interior of the graph of the relation

$$\frac{x^2}{9} + \frac{y^2}{25} = 1?$$

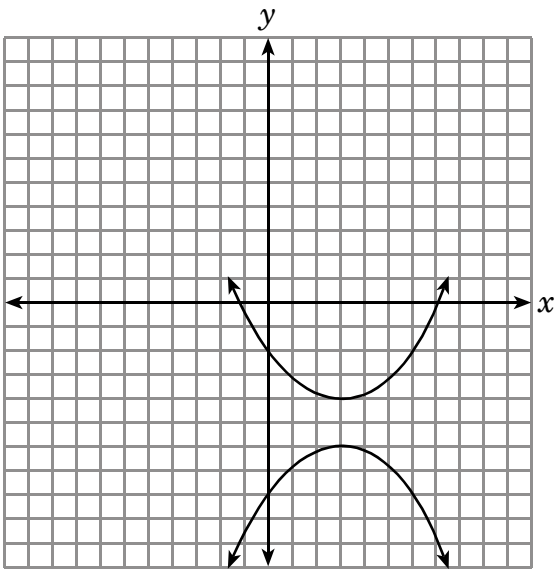
- A (3, 5)
 - B (2, 4)
 - C (0, -5)
 - D (-2, -3)
-

6. Which of the following are the x -intercepts for $\frac{x^2}{16} - \frac{y^2}{9} = 1$?

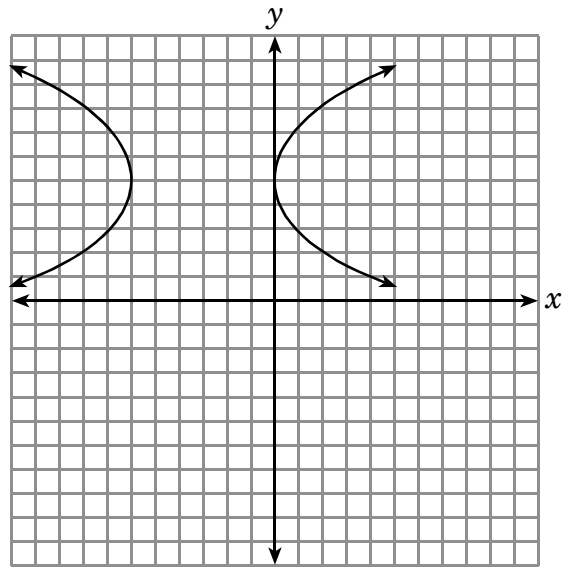
- A $\{-3, 3\}$
- B $\{-4, 4\}$
- C $\{-5, 5\}$
- D $\{-8, 8\}$

7. Which is the correct graph of $x^2 - y^2 + 6x + 10y - 17 = 0$?

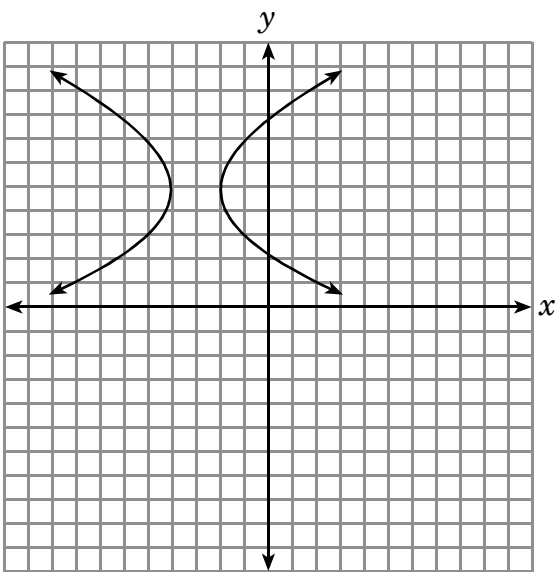
A



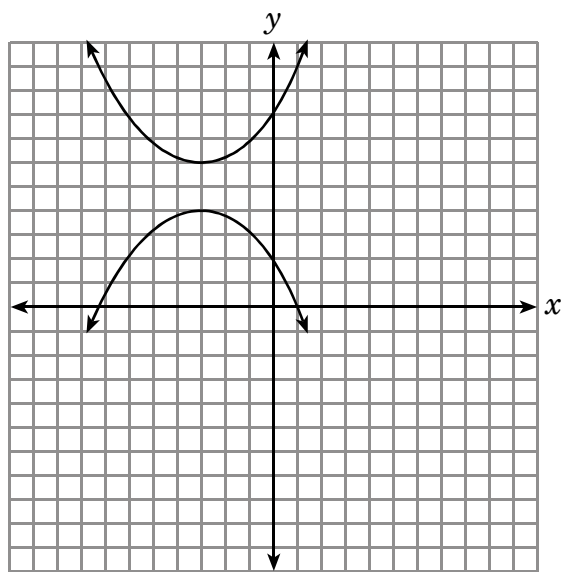
B



C



D



8. Which of the following
is a point on the graph
of $\frac{(x-1)^2}{25} + \frac{(y+1)^2}{9} = 1$?
- A $(-4, -1)$
- B $(-4, 1)$
- C $(4, 1)$
- D $(4, -1)$

End of Goal 2 Sample Items

Answers to EOC Algebra II Sample Items

Goal 2

1. Objective 2.01

Write the equations in standard form of circles and parabolas; graph.

Thinking Skill: Applying **Correct Answer:** A

2. Objective 2.01

Write the equations in standard form of circles and parabolas; graph.

Thinking Skill: Applying **Correct Answer:** D

3. Objective 2.01

Write the equations in standard form of circles and parabolas; graph.

Thinking Skill: Analyzing **Correct Answer:** C

4. Objective 2.01

Write the equations in standard form of circles and parabolas; graph.

Thinking Skill: Applying **Correct Answer:** A

5. Objective 2.02

Graph ellipses and hyperbolas given the equations.

Thinking Skill: Analyzing **Correct Answer:** D

6. Objective 2.02

Graph ellipses and hyperbolas given the equations.

Thinking Skill: Analyzing **Correct Answer:** B

7. Objective 2.02

Graph ellipses and hyperbolas given the equations.

Thinking Skill: Applying **Correct Answer:** C

8. Objective 2.02

Graph ellipses and hyperbolas given the equations.

Thinking Skill: Analyzing **Correct Answer:** A