# Chapter 7 Test, Form 2A

SCORE

Write the letter for the correct answer in the blank at the right of each question.

For Questions 1-3, refer to the ellipse represented by the equation  $\frac{(x-3)^2}{2^2} + (y-2)^2 = 1$ .

Find the coordinates of the center.

100	8	2	130
	76	-	-

$$C(-3, -2)$$

$$D(-2,-3)$$

Find the coordinates of the foci.

$$F(3, 2 \pm 2\sqrt{6})$$

$$G(-2,2)$$
,  $(8,2)$ 

$$H(3\pm 2\sqrt{6},2)$$

$$J (2 \pm 2\sqrt{6}, 3)$$

Find the coordinates of the vertices and co-vertices.

 Determine the angle of rotation θ through which the conic given by equation.  $2x^2 + 3xy + y^2 = 1$  should be rotated.

Write the pair of parametric equations x = 3 cos θ and y = sin θ in rectangular form.

$$A \frac{x^2}{a} + y^2 = 1$$
  $B \frac{x^2}{a} - y^2 = 1$   $C y^2 - \frac{x^2}{a} = 1$   $D y^2 + \frac{x^2}{a} = 1$ 

$$\mathbf{B} \frac{\mathbf{x}^2}{2} - \mathbf{y}^2 = 1$$

$$Cy^2 - \frac{x^2}{3} = 1$$

$$\mathbf{D} \, \mathbf{y}^2 + \frac{\mathbf{x}^2}{3} =$$

Use the discriminant to identify the conic section 3y<sup>2</sup> - 3x<sup>2</sup> + 12y + 18x = 42.

Write the standard form of the equation y<sup>2</sup> - x<sup>2</sup> = 2 in the x'y' plane after a rotation of 45°.

$$\mathbf{A} \times \mathbf{y}' = 1$$

$$\mathbf{B} \times \mathbf{y}^* = -2$$

$$\mathbf{B} x' y' = -2$$
  $\mathbf{C} (y')^2 - (x')^2 = 2$   $\mathbf{D} (x')^2 = y'$ 

$$D(x')^2 = y'$$

 Randall bit a golf ball with an initial velocity of 120 feet per second at an angle of 38" with the ground. Write parametric equations to represent this situation.

$$Fx = 120t \cos 38^{\circ} - 16t^{2}$$
  
 $v = 120t \sin 38^{\circ}$ 

$$y = 120t \sin 38^{\circ}$$
  
 $G x = 120t \cos 38^{\circ}$ 

$$y = 120t \cos 38^{\circ} - 16t^{2}$$

$$\mathbf{H}_{X} = 38t \cos 120^{\circ}$$

$$y = 38t \sin 120^{\circ} - 16t^{2}$$
  
 $J x = 38 \cos 120t^{\circ}$ 

$$y = 38 \cos 120r^{\circ}$$

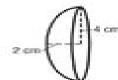
9. A cross section of the reflector shown is in the shape of a parabola. Write an equation for the cross section.

$$\mathbf{A} \ \mathbf{y}^2 = 4x$$

$$A_{y^{-}} = 4x$$
  
 $B_{y^{2}} = 8x$ 

$$C x^2 = 4y$$

$$\mathbf{D} x^2 = 8y$$



# **Pre Calculus Chapter 7 Test Form 2a**

**Peipei Pang** 

## **Pre Calculus Chapter 7 Test Form 2a:**

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