The domain of definition of the function

$$f(x,y) = \sqrt{25 - x - y}$$

- **A.** The half of xy-plane
- B. The xy-plane
- C. The disk with center at the origin and radius 5
- **D.** The first quadrant

The domain of definition of the function

$$f(x,y) = -16 - x^2 - y^2$$

- **A.** The xy-plane
- B. The disk with center at the origin and radius 4
- C. The exterior of the circle with center at the origin and radius 4
- D. The segment [-4, 4]

The domain of definition of the function

$$f(x, y) = x^2 + y^2 - 16$$

- A. The half of xy-plane
- **B.** The *xy*-plane
- C. The disk with center at the origin and radius 4
- **D.** The first quadrant

The domain of definition of the function

$$f(x,y) = 5(1 - \frac{x}{4} - \frac{y}{25})$$

- A. The half of xy-plane
- **B.** The *xy*-plane
- **C.** The interior of an ellipse
- D. The segment [-2, 5]

The domain of definition of the function

$$f(x, y) = \sqrt{25 - x^2 - y^2}$$

- A. The disk with center at the origin and radius 5
- B. The exterior of the circle with center at the origin and radius 5
- C. The disk with center at the origin and radius 25
- D. The segment [-5, 5]

The domain of definition of the function

$$f(x,y) = \sqrt{x^2 + y^2 - 25}$$

- **A.** The half of *xy*-plane
- B. The disk with center at the origin and radius 5
- C. The exterior of the circle with center at the origin and radius 5
- **D.** The first quadrant

The domain of definition of the function

$$f(x,y) = x^2 + y^2 - 25$$

- **A.** The half of *xy*-plane
- **B.** The *xy*-plane
- C. The disk with center at the origin and radius 5
- **D.** The first quadrant

The domain of definition of the function

$$f(x,y) = 25 - x^2 - y^2$$

- **A.** The xy-plane
- B. The disk with center at the origin and radius 5
- C. The exterior of the circle with center at the origin and radius 5
- D. The segment [-5, 5]

The domain of definition of the function

$$f(x,y) = \sqrt{16 - x - y}$$

- **A.** The half of xy-plane
- B. The xy-plane
- C. The disk with center at the origin and radius 4
- **D.** The first quadrant

The domain of definition of the function

$$f(x, y) = \sqrt{16 - x^2 - y^2}$$

- A. The disk with center at the origin and radius 4
- B. The exterior of the circle with center at the origin and radius 4
- C. The disk with center at the origin and radius 16
- D. The segment [-4, 4]

The domain of definition of the function

$$f(x,y) = \sqrt{x^2 + y^2 - 16}$$

- **A.** The half of *xy*-plane
- B. The disk with center at the origin and radius 4
- C. The exterior of the circle with center at the origin and radius 4
- **D.** The first quadrant

The level curves of the function

$$f(x,y) = \sqrt{16 - x^2 - 4y^2}$$

- A. Straight lines
- B. Concentric circles
- C. Hyperbolas
- D. Ellipses

The level curves of the function

$$f(x,y) = 3(1 - \frac{x}{2} - \frac{y}{5})$$

- A. Straight lines
- B. Concentric circles
- C. A pair of straight lines
- D. Ellipses

The level curves of the function

$$f(x, y) = \sqrt{25 - x^2 - y^2}$$

- A. Straight lines
- B. Concentric circles
- C. Hyperbolas
- D. Ellipses

The level curves of the function

$$f(x,y) = \sqrt{25 - x - y}$$

- A. Straight lines
- B. Concentric circles
- C. Hyperbolas
- D. A pair of straight lines

The level curves of the function

$$f(x, y) = \sqrt{25 - x^2 + y^2}$$

- A. Straight lines
- B. Concentric circles
- C. Hyperbolas
- D. Ellipses

The level curves of the function

$$f(x,y) = x^2 - y^2$$

- A. Straight lines
- B. Concentric circles
- C. Hyperbolas
- D. Ellipses

The level curves of the function

$$f(x,y) = \sqrt{25 - x^2 - 5y^2}$$

- A. Straight lines
- B. Concentric circles
- C. Hyperbolas
- D. Ellipses

The level curves of the function

$$f(x, y) = \sqrt{16 - x^2 - y^2}$$

- A. Straight lines
- B. Concentric circles
- C. Hyperbolas
- D. The ellipses

The level curves of the function

$$f(x,y) = \sqrt{16 - x - y}$$

- A. Straight lines
- B. Concentric circles
- C. Hyperbolas
- D. Ellipses

The level curves of the function

$$f(x, y) = \sqrt{16 - x^2 + y^2}$$

- A. Straight lines
- B. Concentric circles
- C. Hyperbolas
- D. Ellipses

The level curves of the function

$$f(x,y) = 16 - x^2 - 4y^2$$

- A. Straight lines
- B. Concentric circles
- C. Hyperbolas
- D. Ellipses

The level surfaces of the function

$$f(x, y, z) = \sqrt{16 - x^2 - y^2 - 4z^2}$$

- A. Ellipsoids
- B. Cones
- C. Planes
- D. Spheres

The level surfaces of the function

$$f(x, y, z) = 16 - x - y - 4z$$

- A. Ellipsoids
- B. Cones
- C. Planes
- D. Spheres

The level surfaces of the function

$$f(x, y, z) = 16 - x^2 - 4y^2$$

- A. Cylinders
- B. Planes
- C. Ellipses
- D. Ellipsoids