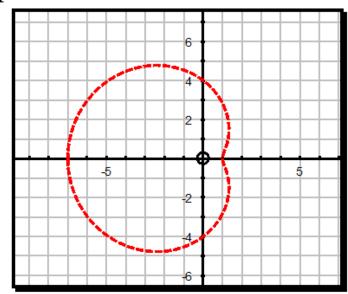
Find the polar coordinates of (-3, -4) for r > 0. Round to the nearest tenth when necessary.

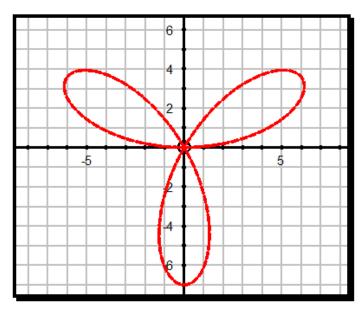
- a. none of these
- c. (5, 306.9°)

- b. $(-5, 233.1^{\circ})$
- d. (5, 233.1°)

Graph: $r = -4 - 3\cos\theta$

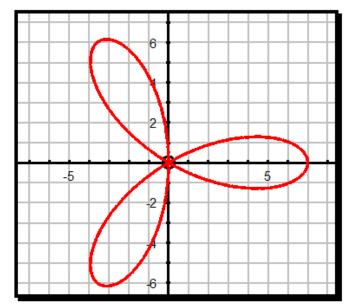


a.



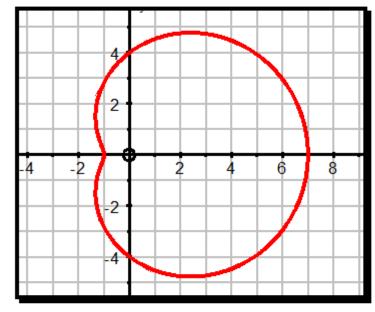
b.

none of these



d.

Find an equation for the graph below:



a. $r = 4 - 3\cos\theta$ b. $r^2 = 9\cos\theta$ c. $r = 2\cos(3\theta)$ d. $r = 4 + 3\cos\theta$

Find the sum 7+3+(-1)+...+(-113)

- 3286 b. − 1751

424

none of these

The following is for questions

An NFL punter at the 15 yard line kicks a football downfield with initial velocity 95 feet per second at an angle of elevation of 65°. Let *t* be the elapsed time since the football was kicked. Use parametric equations to answer the following questions. [Assume initial height is zero]

What is the distance the ball traveled in feet downfield? (to the nearest number shown)

a. 215

b. 220

c. 225

d. 230

e. 235

What was the hang time in seconds? Round to the nearest tenth.

a. 5.1

b. 5.2

c. 5.3

d. 5.4

e. 5.5

Find:
$$\lim_{x \to 5^{-}} \left(\frac{7x}{x-5} \right)$$

a. − ∞

o. ´

c. ∞

1. 0

Find:
$$\lim_{x \to 2} \left(\frac{x^3 - 8}{x^4 - 16} \right)$$

none of these

a.
$$\frac{1}{6}$$

5. $\frac{3}{8}$

c. $\frac{1}{4}$

d.
$$\frac{1}{32}$$

Find:
$$\lim_{n \to \infty} \sum_{i=1}^{n} \left[\frac{8i-n}{n^2} \right]$$

a. 4

. (

9

C.

1. 5

Find the point on the unit circle that corresponds to $-\frac{\pi}{4}$

a.
$$\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$$

b.
$$\left(\frac{1}{2}, \frac{1}{2}\right)$$

c.
$$(1, -1)$$

d.
$$\left(\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$$

Determine which angle is coterminal to $\theta = -\frac{5\pi}{6}$

a.
$$\frac{5\pi}{6}$$

b.
$$\frac{7\pi}{6}$$

c.
$$\frac{\pi}{6}$$

$$1. \quad \frac{11\pi}{6}$$

Determine which of the following *positive* angles is *complementary* to $\theta = \frac{\pi}{6}$

a.
$$\frac{5\pi}{6}$$

b.
$$\frac{13\pi}{6}$$

c.
$$\frac{\pi}{3}$$

d.
$$\frac{11\pi}{6}$$