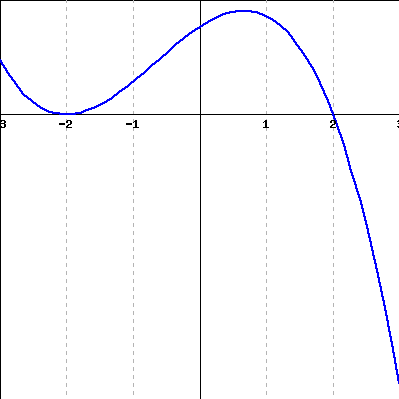
1. Find a slope-intercept form equation for the line through and .
   1. None of the Above
2. The distance from a point  to the plane with equation  is 3. If  are all non-negative integers, find the value of .
   1. 1
   2. 2
   3. 3
   4. 4
   5. None of the Above
3. Find the number of quadruples  of positive even integers such that .
   1. 560
   2. 450
   3. 340
   4. 220
   5. None of the Above
4. Find the area of the region of the  defined by the inequality .
   1. 
   2. 4
   3. 
   4. 8
   5. None of the Above
5. Which of the following is a possible equation representing this graph?
   1. None of the Above
6. Find the minimum value of the following equation:
   1. -6
   2. -4
   3. 77
   4. 87
   5. None of the Above
7. Choose the best option below to describe the graph of

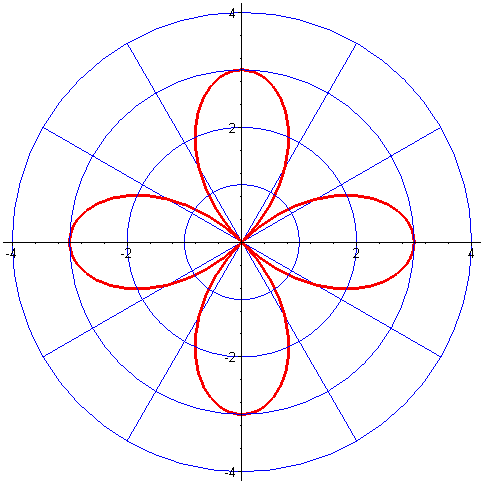
the equation:

* 1. Bounded Above
  2. Bounded Below
  3. Bounded
  4. Unbounded
  5. None of the Above

1. Which of the following equations has a graph with removable discontinuity?
   1. None of the Above
2. Which of the following functions have graphs that intersect their horizontal asymptotes?
   1. None of the Above
3. Given a function , which of the following represents a vertical stretch by a factor of 2?
   1. None of the Above
4. Let , which of the following is true?
   1. None of the Above
5. . Find A+B.
   1. 0
   2. 2
   3. 3
   4. 6
   5. None of the Above
6. Find a polynomial function with leading coefficient 2, degree 4, with -3, -1, 0, and as zeroes.
   1. None of the Above
7. Find the asymptotes and intercepts of the following equation: .
   1. None of the Above
8. The amount *C* in grams of carbon-14 present in a certain substance after *t* years is given by . How many years will it take for the amount of carbon-14 present to reduce by 50%?
   1. None of the Above
9. Which of the following is the inverse of ?
   1. None of the Above
10. Solve:
    1. None of the Above
11. The graph of intersects the graph of:
    1. None of the Above
12. Solve:
    1. 0
    2. None of the Above
13. Find the sum of the period and vertical shift of the following trigonometric equation:
    1. None of the Above
14. Find all solutions on the interval for the equation: .
    1. None of the Above
15. If and , find

.

* 1. None of the Above

1. Find the largest negative value for x that solves the equation: .
   1. None of the Above
2. Identify the graph of the parametric curve: .
   1. Lemniscate
   2. Limacon
   3. Ellipse
   4. Hyperbola
   5. None of the Above
3. Identify the equation of the polar graph shown below:
   1. None of the Above
4. Solve for z: . Which of the following is a possible value for z?
   1. 2
   2. None of the Above
5. Solve for the sum of the entries in *X* if

, and and

* 1. 0
  2. 1
  3. 2
  4. 3
  5. None of the Above

1. Find the equilibrium point for the given supply and demand curve and then find the sum of the coordinate pair.
   1. 137.5
   2. 140.5
   3. 144.5
   4. 147.5
   5. None of the Above
2. Solve for : 
   1. 
   2. 
   3. 3
   4. 4
   5. None of the Above
3. Find the real solution to the equation .
   1. 
   2. 
   3. 
   4. 
   5. None of the Above