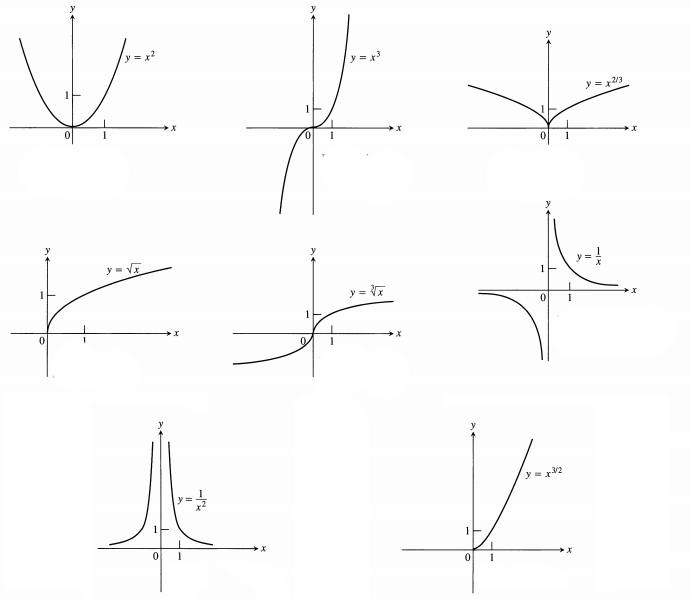
1. Find the domain of each of the following functions:
   1. f(x) =
   2. f(x) =
   3. f(x) =
   4. f(x) =
   5. f(x) =
   6. f(x) = tan(5x)
   7. f(x) = x2 – 4x + 4
   8. f(x) = x2 − 2x + 5
   9. f(x) =
   10. f(x) =
   11. f(x) =
   12. f(x) =
   13. f(x) =
   14. f(x) =

1. Find the range of each of the following functions:
   1. f(x) = x4
   2. f(x) =
   3. f(x) = x2 for 2 < x < 4
   4. f(x) = 3(x + 5)2 + 2
   5. f(x) = cot(2x)
   6. f(x) = x2 − 2x + 5
   7. f(x) = x2 – 4x + 4
   8. f(x) = x2 + 4
   9. f(x) = 2(x2 + 5)
   10. f(x) = (x – 1)2 + 6
   11. f(x) = -x2 + 3x – 2
2. Define following terms with example:
   1. Exponential function
   2. Logarithmic function
   3. Polynomial function
   4. Linear function
   5. Rational function
3. Sketch the graph of following functions:
   1. y =
   2. y=x2 on [2, 8]
   3. 2x + 3y = 6
   4. y = sin(2x)
   5. y = cot(3x)
   6. y = x3
   7. y =√x
   8. y =√x – 5
4. Determine whether the given function is odd, even or neither.
   1. f(x) = x-5
   2. f(x) = x2 + 1
   3. f(x) = x2 + x
   4. f(x) = x4 + 3x2 – 1
   5. f(x) =
   6. f(x) = cosx
   7. f(x) = sinx
   8. f(x) = |x3|
5. Find the Domain and Range of the following graphs:



1. Evaluate the limits: