

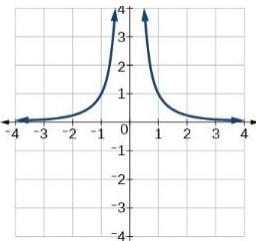
16

Basic Functions

PROPERTIES AND GRAPHS

Notes:

$$f(x) = \frac{1}{x^2}$$

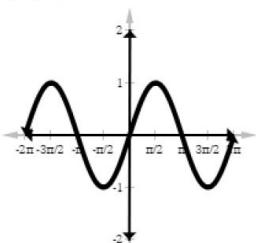


Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

Sine Function

$$f(x) = \sin x$$

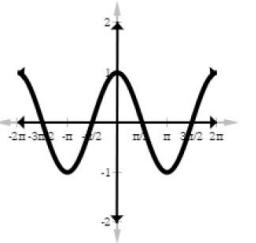


Domain:
Range
x-intercepts
y-intercepts

Rel. Max:
Rel. Min.
Odd Even Neither

Cosine Function

$$f(x) = \cos x$$

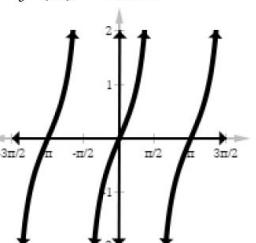


Domain:
Range
x-intercepts
y-intercepts

Rel. Max:
Rel. Min.
Odd Even Neither

Tangent Function

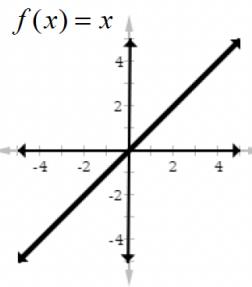
$$f(x) = \tan x$$



Domain:
Range
x-intercepts
y-intercepts

Rel. Max:
Rel. Min.
Odd Even Neither

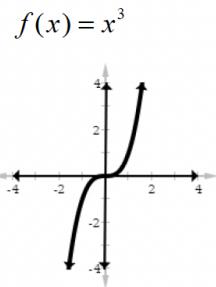
Linear Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

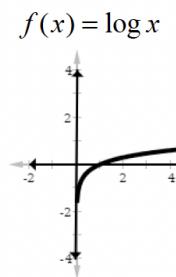
Cubing Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

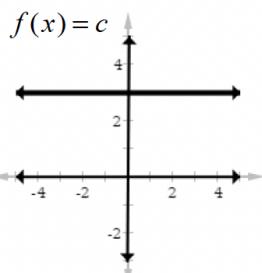
Logarithmic Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

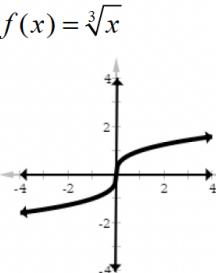
Constant Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

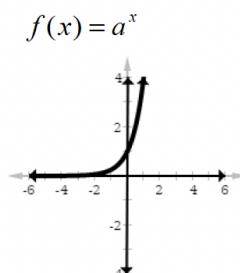
Cube Root Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

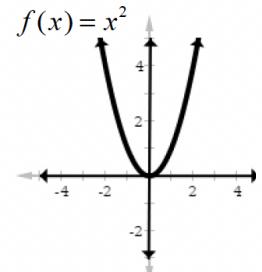
Exponential Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

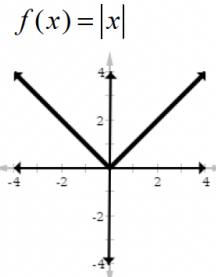
Quadratic Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

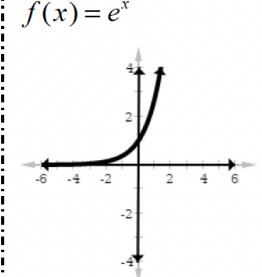
Absolute Value Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

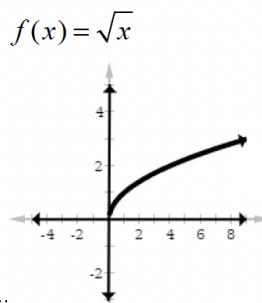
Natural Exponential Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

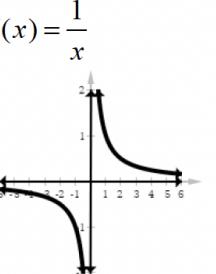
Square Root Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

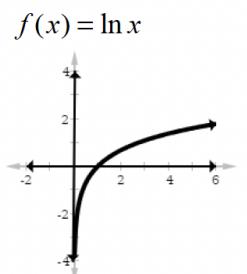
Reciprocal Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither

Natural Logarithmic Function



Domain:
Range
x-intercepts
y-intercepts
Increasing on
Decreasing on

Rel. Max:
Rel. Min.
Odd Even Neither