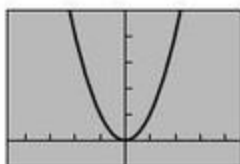[–4.7, 4.7] by [–3.1, 3.1]

Identity Function
$f(x) = x$
Domain $= (-\infty, \infty)$
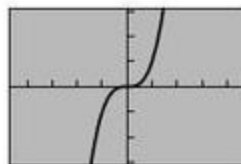Range $= (-\infty, \infty)$

[–4.7, 4.7] by [–1, 5]

Squaring Function
$f(x) = x^2$
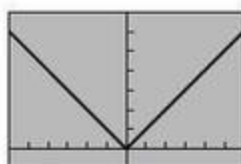Domain $= (-\infty, \infty)$
Range $= [0, \infty)$

[–4.7, 4.7] by [–3.1, 3.1]

Cubing Function
$f(x) = x^3$
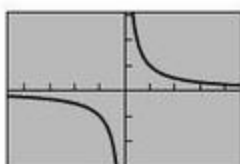Domain $= (-\infty, \infty)$
Range $= (-\infty, \infty)$

[–6, 6] by [–1, 7]

Absolute Value Function
$f(x) = |x| = \text{abs}\,(x)$
Domain $= (-\infty, \infty)$
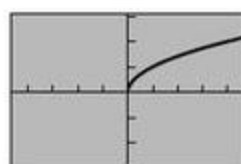Range $= [0, \infty)$

[–4.7, 4.7] by [–3.1, 3.1]

Reciprocal Function
$f(x) = \dfrac{1}{x}$
Domain $= (-\infty, 0) \cup (0, \infty)$
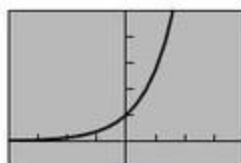Range $= (-\infty, 0) \cup (0, \infty)$

[–4.7, 4.7] by [–3.1, 3.1]

Square Root Function
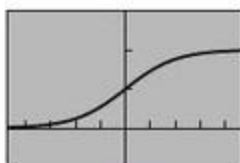$f(x) = \sqrt{x}$
Domain $= [0, \infty)$
Range $= [0, \infty)$

[–4, 4] by [–1, 5]

Exponential Growth Function
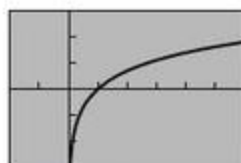$f(x) = e^x$
Domain $= (-\infty, \infty)$
Range $= (0, \infty)$

[–4.7, 4.7] by [–0.5, 1.5]

Basic Logistic Function
$f(x) = \dfrac{1}{1 + e^{-x}}$
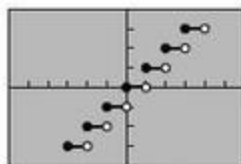Domain $= (-\infty, \infty)$
Range $= (0, 1)$

[–2, 6] by [–3, 3]

Natural Logarithmic Function
$f(x) = \ln x$
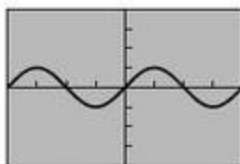Domain $= (0, \infty)$
Range $= (-\infty, \infty)$

[–6, 6] by [–4, 4]

Greatest Integer Function
$f(x) = \text{int}\,(x)$
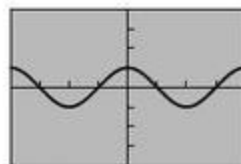Domain $= (-\infty, \infty)$
Range $=$ all integers

[–2π, 2π] by [–4, 4]

Sine Function
$f(x) = \sin\,(x)$
Domain $= (-\infty, \infty)$
Range $= [-1, 1]$

[–2π, 2π] by [–4, 4]

Cosine Function
$f(x) = \cos\,(x)$
Domain $= (-\infty, \infty)$
Range $= [-1, 1]$