

Lesson 3

- 1) a) continuous
b) quadratic
c) increasing from $-\infty$ to 2
decreasing from 2 to ∞
d) absolute maximum (2, 2)
e) domain: all real #s
range: $y \leq 2$
- 2) a) continuous
b) absolute value
c) decreasing from $-\infty$ to 0
increasing from 0 to ∞
d) absolute minimum (0, 0)
e) domain: all real #s
range: $y \geq 0$
- 3) a) continuous
b) linear
c) increasing
d) neither
e) domain: all real #s
range: all real #s
- 4) a) continuous
b) exponential
c) decreasing
d) neither
e) domain: all real #s
range: $y > 4.5$?
- 5) a) discrete
b) linear
c) decreasing
d) absolute maximum (-7, 10)
absolute minimum (0, -7)
e) domain: $\{-7, -6, -5, \dots, 9, 10\}$
range: $\{-7, -6, -5, \dots, 9, 10\}$
- b) a) continuous
b) absolute value
c) increasing from $-\infty$ to -2
decreasing from -2 to ∞
d) absolute maximum (-2, 4)
e) domain: all real #s
range: $y \leq 4$