1) $y = x^2 + 4x$, [4, 7] 1) _____

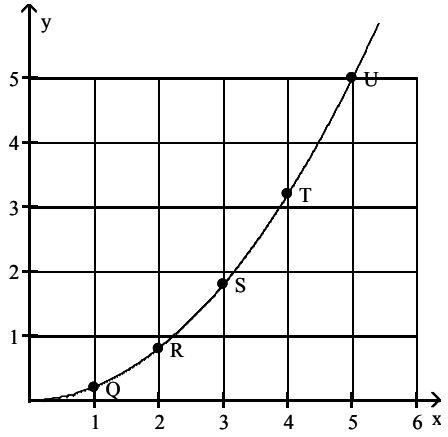
A) 11 B) $\frac{45}{7}$ C) $\frac{77}{3}$ D) 15

2) $y = \sqrt{2x}$, [2, 8] 2) _____

A) $-\frac{3}{10}$ B) $\frac{1}{3}$ C) 7 D) 2

Use the slopes of UQ, UR, US, and UT to estimate the rate of change of y at the specified value of x.

3) x = 5 3) _____



A) 1 B) 2 C) 5 D) 0

Use the table to estimate the rate of change of y at the specified value of x.

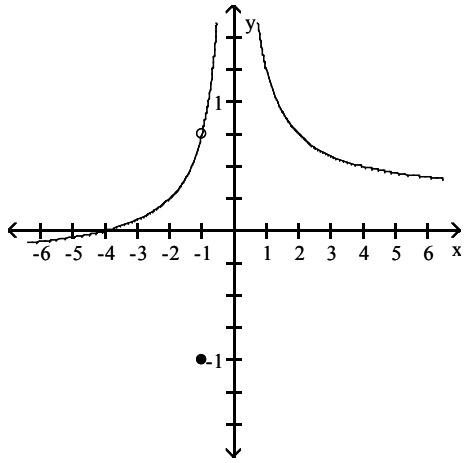
4) x = 1. 4) _____

x	y
0	0
0.2	0.02
0.4	0.08
0.6	0.18
0.8	0.32
1.0	0.5
1.2	0.72
1.4	0.98

A) 2 B) 0.5 C) 1 D) 1.5

Use the graph to evaluate the limit.

5) $\lim_{x \to -1} f(x)$ 5) _____



A) $\frac{3}{4}$ B) ∞ C) -1 D) $-\frac{3}{4}$

Find the limit.

6) $\lim_{x \to 2} (8x + 3)$ 6) _____

A) 3 B) −13 C) 11 D) 19