
Solutions

10.1A-D graphs **10.1E** up 3, opens down, skinnier **10.1F** ~1.6 in **10.2A** axis: $x=3$, $v: (3,23)$
10.2B graph **10.2C** 1) max @ $(1,3)$ 2) min @ $(1,-1)$ **10.2D** min @ 56 inches **10.2E** max @ 12 feet
10.3A $x = 4, -3$ **10.3B** $x = -3$ **10.3C** graph **10.3D** $x = 3, 5$ **10.3E** $h \approx 3.1$ ft.
10.4A $x = \pm 2$ **10.4B** $x = \pm \frac{7}{3}$ **10.4C** $1 \pm \sqrt{7}$ **10.4D** $r = 6$ cm **10.6A** $x = \frac{3 \pm \sqrt{21}}{3}$ **10.6B** 2.91 s
10.6C 1) $x = 3$ 2) $x = 0, 9$ 3) $x = \frac{1}{2}, \frac{4}{5}$ **10.7A** 1) -300; 0 solutions 2) 0; 1 solution 3) 49; 2 solutions
10.7B 1 solutions **10.7C** 0 **10.7D** 2 times @ $t = \frac{4 \pm \sqrt{2}}{4}$