SM3 2.1 odd answers

1. [−3,∞) 3. (−∞, ∞) 5. (−∞, 1] 7. Domain: $(-\infty, \infty)$ Positive: $(-\infty, -5) \cup (9, \infty)$ Range: $[-7,\infty)$ Negative: (-5, 9)*x*-intercept(s): (-5, 0), (9, 0) Local Min: (2, -7)y-intercept; (0, -5)Local Max: none Increasing: $(2, \infty)$ Decreasing: $(-\infty, 2)$ 9. Domain: $(-\infty, \infty)$ Positive: $(1, 2) \cup (2, \infty)$ Range: $(-\infty, \infty)$ Negative: $(-\infty, 1)$ *x*-intercept(s): (-1, 0), (2, 0) Local Min: (2, 0)y-intercept; (0, 2)Local Max: (0, 2)Increasing: $(-\infty, 0) \cup (2, \infty)$ Decreasing: (0, 2)11. Domain: [0, 2] Range: [0, 10] x-intercept(s): (2, 0)*y*-intercept; (0, 10) Increasing Interval(s): N/A Decreasing Interval(s): (0, 2)Local Max: (0, 10) Local Min: (2,0)Positive Interval(s): [0, 2) Negative Interval(s): N/A "What does it mean in context?" answers may vary.