

Answers to Math 21a Practice Hourly 2

- (1) FFFFTFFFFFTTTTTTFTFT
- (2) III, II, IV, I
- (3) saddles: $(0, 0), (0, \pm 2), (\pm 2, 0)$
maxes: $(1, 1), (-1, -1)$
mins: $(1, -1), (-1, 1)$
- (4) $z = 1 + x - y$; 1.06
- (5) -1
- (6) $100\pi\sqrt{50}$
- (7) $\frac{16}{9}$
- (8) a) $\frac{56}{3}$ b) $\frac{4}{3}(47\frac{17}{35}) = \frac{2216}{35}$