Math 126 C - Spring 2010
Mid-Term Exam Number Two
May 13, 2010
Answers

1. (a) $\sqrt{5}$ cm/sec. (b) $t = \frac{\pi}{4}$.

2. $\kappa = \dfrac{2\sqrt{2}}{73^{3/2}}$

3. (a) $\left(\frac{1}{5}, \frac{1}{2}, \frac{77}{10}\right)$.

   (b) There are four critical points (1,1) (local min), (1,-1) (saddle point), (-1,1) (saddle point), (-1,-1) (local max).

4. $V = \displaystyle\int_0^6 \int_{3-\frac{1}{2}y}^{6-y} xy\, dx\, dy.$