Math 126 E - Spring 2012
Mid-Term Exam Number Two
May 17, 2012
Answers

1. $\frac{455}{16}$

2. $(0,0)$ is a local minimum and $(2,0)$ is a saddle point.

3. (a) $(e^{10} - 1, -40, e^{-10} - 11)$ (b) $(0,0,0)$ and $(e^2 - 1, 0, e^{-2} - 3)$

4. The change in y is approximately $\frac{\pi - 1}{10}$.

5. $\frac{4}{3}\left(e^8 - 1\right)$