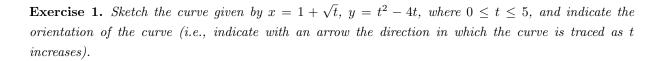
## Math 53 - Multivariable Calculus

## Quiz # 1

## January 20th, 2012



**Exercise 2.** Describe the motion of a particle with position (x(t), y(t)), where  $x(t) = 5\sin(t)$ ,  $y(t) = 2\cos(t)$  and  $-\pi \le t \le 5\pi$ .

**Exercise 3.** Find the parametric equations for the path of a particle that moves once counterclockwise around the circle  $x^2 + (y-1)^2 = 4$  starting at (2,1).