

Quiz 3 Calculus 3 11/20/2002

Each problem is worth 5 points. Show complete justification for full credit.

1. Give parametric equations $x(t)$, $y(t)$, and bounds for t that produce a line segment from $(2,5)$ to $(3,-7)$.

2. Give parametric equations $x(t)$, $y(t)$, and bounds for t that produce the bottom half of a circle (centered at the origin) of radius 6 traversed counterclockwise.

3. Plot the vector field $\mathbf{F}(x,y) = y\mathbf{i} + \mathbf{j}$ for the points $(0,0)$, $(2,1)$, $(0,2)$, $(1,-1)$, and $(-1,-2)$ indicated on the coordinate system below.

