**Quiz 3          Calculus 3          10/31/17**

Each problem is worth 5 points.  Clear and complete justification is required for full credit.

1.  A black cat runs along a line segment from (3, –4) to (1, –3).  Give equations x($t$), y($t$) and bounds for $t$ to parametrize this path.

2. A really scary bat is flying in circles 10 feet above the ground. Give parametric equations $x(t)$, $y(t)$, $z(t)$ and bounds for $t$ that produce a circle with radius 5 feet centered at $(0,0,10)$ and traveling two complete times around the circle.