SM 223 Quiz #8 30 Sep 2009 Last Name _____ **Period** ○1st ○2nd ○3rd

Time: 4 minutes: Closed book, notes, calculator.

Identify each curve by writing the **best** capital letter (A)–(J) in the blank. A capital letter may be used more than once or not at all.

A:	circle	F:	line
B:	semi-circle	G:	line segment
C:	quarter-circle	H:	parabola
D:	ellipse	I:	spiral
E:	semi-ellipse	J:	helix

____ $\mathbf{r}(t) = \langle \cos(t),\, \sin(t) \rangle$

____ $\mathbf{r}(t) = \langle t\cos(t),\, t\sin(t) \rangle$

____ $\mathbf{r}(t) = \langle \cos^2(t),\, \sin^2(t) \rangle \quad (0 \le t \le \pi/2)$

____ $\mathbf{r}(t) = \langle 3\cos(2t),\, 4\sin(2t) \rangle \quad (0 \le t \le \pi/2)$

____ $\mathbf{r}(t) = \langle t, \cos(2t),\, \sin(2t) \rangle$