

Name: \_\_\_\_\_

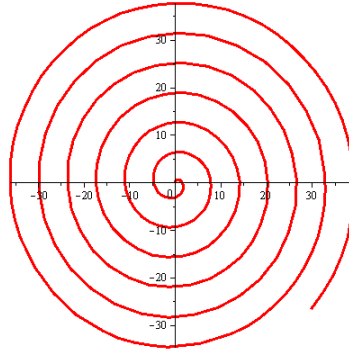
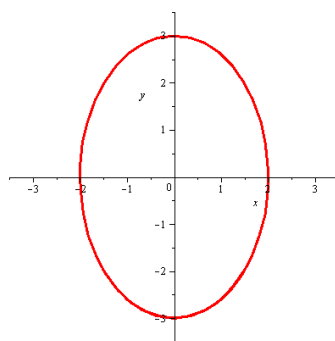
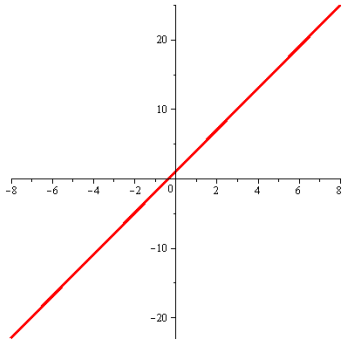
## Last Quiz

1. Which of the following graphs represents which parametric function:

a)  $(x, y) = (2 \cos(t), 3 \sin(t))$

b)  $(x, y) = (t \cos(t), t \sin(t))$

c)  $(x, y) = (2t, 6t + 1)$



2. Describe the parametric equation  $(\frac{1}{2}t, 2t^2 + 3)$  by eliminating the variable  $t$  and writing it in the form  $y = f(x)$

3. Which of the two parametric equations is smooth?

a)  $(t^2, 3t^3 + t^4)$

b)  $(2t^3 - 6t, \frac{1}{3}t^3 + t^2 - 3t)$

4. Find the slope of the tangent to the curve given by  $(t^2, 3e^{t-1})$  at time  $t = 1$