

1. What is the slope of the line tangent to the curve $3y^2 - 2x^2 = 6 - 2xy$ at the point (3,2)?



	HW Questions	
-		









Example	$\frac{dP}{dt} = kP\left(1 - \frac{P}{M}\right)$
The maximum bear population in a park is 100. The population at $t = 0$ is 10 (such that t is measured in years). The constant of proportionality is $k = 0.1$.	Pod 12:55 PM 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 a) Write a differential equation to model the population. b) Solve the differential equation. c) When will the population reach 50? d) How long will it take to reach the carrying capacity? (Assume it has reached capacity when the population is 99.5% of the carrying capacity.) 	