## MATH 046 020-QUIZ 1, SPRING 2018

	Determine if the				e, or exact	t. For exactness	use the
differential	form $2xydx + x$	$^{2}dy = 0$ . Explain	your rea	asoning.			

Name: .

2 (4 pts). Model a population P(t), if its rate of growth is proportional to the amount at time t. Assume the rate constant is r > 0.