

MATH 102 REVIEW #7

1. A CELL POPULATION IS GROWING EXPONENTIALLY.
EVERY 2 DAYS THE POPULATION TRIPLS.

a) BY WHAT FACTOR DOES THE POPULATION
GROW AFTER ^{EVERY} 3 DAYS?

b) HOW LONG DOES IT TAKE FOR A POPULATION
TO GROW TENFOLD?

2. WRITE A LINEAR EQUATION THAT EXPRESSES
TEMPERATURE IN DEGREES FAHRENHEIT ~~(F)~~ (F)
IN TERMS OF TEMPERATURE IN DEGREES CENTIGRADE (C)
USE THE FOLLOWING INFORMATION:

	C	F
WATER FREEZES AT	0°	32°
WATER BOILS AT	100°	212°

3. SKETCH

a) $(x-2)^2 = 9 - (y+1)^2$

b) $4x^2 + 9y^2 = 36$