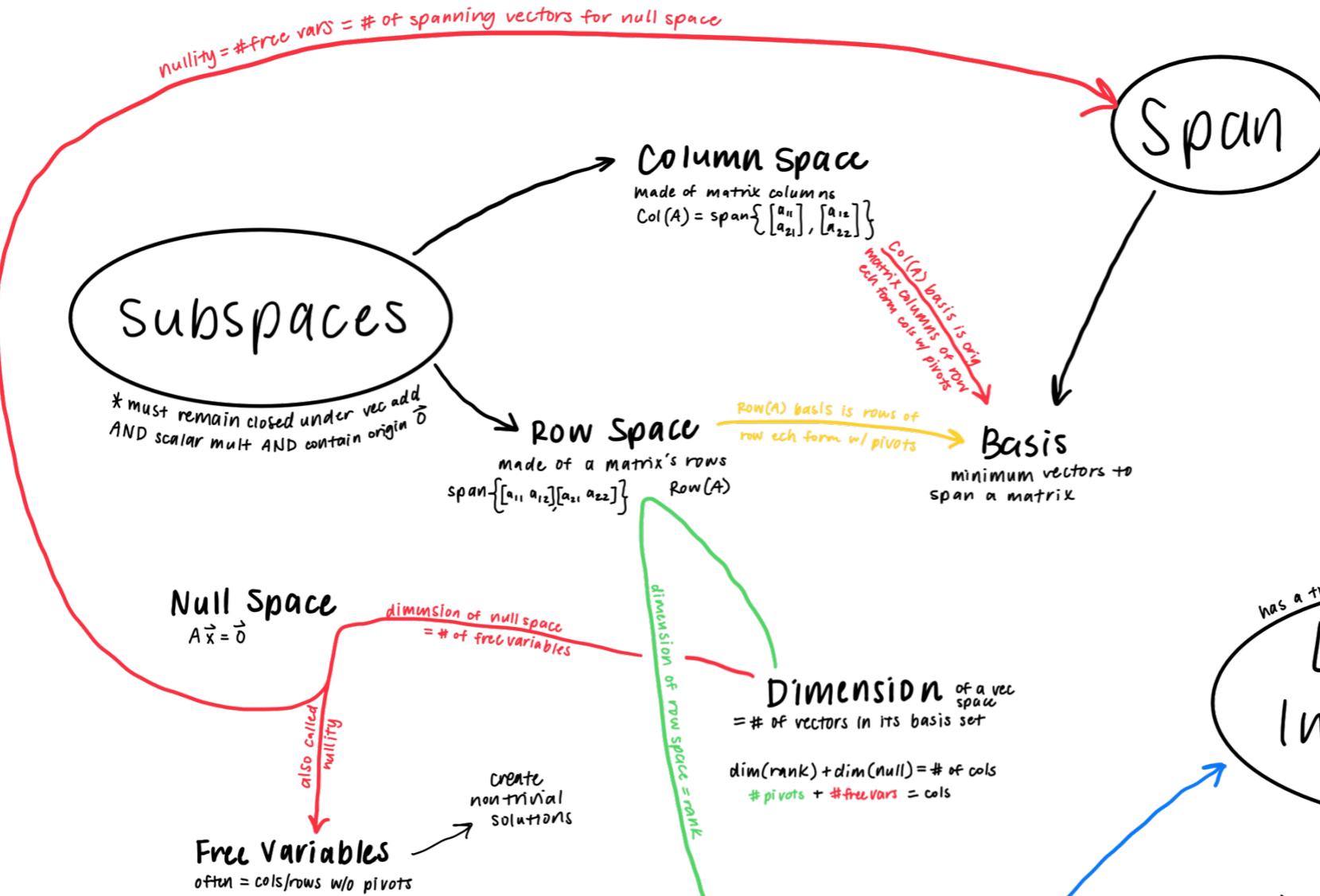


# MA262 exam 2



$$y^{1-n} = \frac{1}{I(x)} \left[ \int (1-n) \right]$$

Population Models

$$P = \frac{P_0 M}{P_0 + (M - P_0) e^{-kMt}}$$

$$\frac{dP}{dt} = kP(M - P)$$

$$\frac{dP}{dt} = aP - bP^2$$

given birth rate =  $aP$   
 given death rate =  $bP^2$   
 birth rate  
 death rate  
 solve for  $a+b$  and plug in

