Name:	Date:	Period:	Seat #:
Raoult's Law:	_		
Write the formula for Raoult's Law: $P_{solu}$ A solution is made by dissolving 164 g of gl The vapor pressure of pure H <sub>2</sub> O at 40.0 °C i The density of H <sub>2</sub> O at 39.8 °C is 0.992 g/mI	lycerin (C <sub>3</sub> H <sub>8</sub> 0 is 54.74 torr.		
a) How many moles of glycerin are in this	solution?		
b) How many moles of water are in this sol	lution?		
c) What is the mole fraction, $\underline{X}$ , of solvent is	in this solution	n?	
d) Calculate the vapor pressure of the solut	ion.		
Osmotic Pressure: SKIP Blood has an osmotic pressure of 7.65 atm a used for an intravenous solution to match the		at concentration of	glucose ( $C_6H_{12}O_6$ ) should be
a) What is the formula for osmotic	pressure? $\Pi$	=	

Gas constant, 
$$R = 8.31 \text{ J mol}^{-1} \text{ K}^{-1}$$
  
= 0.0821 L atm mol<sup>-1</sup> K<sup>-1</sup>  
= 62.4 L torr mol<sup>-1</sup> K<sup>-1</sup>

Calculate the concentration.

b)