	HW3
	P) Let $\omega_1 = \frac{P_1}{P_1 + P_2}$ , $\omega_2 = \frac{P_2}{P_1 + P_2}$ Then  trivially $\omega_1 + \omega_2 = 1$
	Envially  W, + Wz = 1
	Nov $D_{1} = -(1+r) dR_{1}$ $P_{1} dr$
	D <sub>2</sub> = -(1+x) dP <sub>2</sub> P <sub>2</sub> dr
1705ility see	of interpolation $P = -\frac{(1+1)}{p} \frac{dp}{dr} = -\frac{(1+1)}{p_1+p_2} \frac{dp_1+p_2}{dr}$ where $p_2 = p_1 + p_2$
slide 6.	We Calculate
	$W_1D_1 + W_2D_2 = P_1 \qquad -(1+1) dP_2 \qquad + P_1 + P_2 \qquad + P_$
	$= -\frac{(1+r)}{P_1+P_2} \left( \frac{dP_1}{dr} + \frac{dP_2}{dr} \right) = -\frac{(1+r)}{P_1+P_2} \left( \frac{dP_1}{dr} + \frac{dP_2}{dr} + \frac{dP_2}{dr} \right) = -\frac{(1+r)}{P_1+P_2} \left( \frac{dP_1}{dr} + \frac{dP_2}{dr} + \frac{dP_2}{dr} \right) = -\frac{(1+r)}{P_1+P_2} \left( \frac{dP_1}{dr} + \frac{dP_2}{dr} + \frac{dP_2}{dr} + \frac{dP_2}{dr} \right) = -\frac{(1+r)}{P_1+P_2} \left( \frac{dP_1}{dr} + \frac{dP_2}{dr} + \frac{dP_2}{dr} + \frac{dP_2}{dr} \right) = -\frac{(1+r)}{P_1+P_2} \left( \frac{dP_1}{dr} + \frac{dP_2}{dr} + \frac{dP_2}{$