5.3. Wave Superportion.

$$\widetilde{A_3} = \widetilde{A_1} + \widetilde{A_2} \rightarrow A_3 e^{i(G_3)} = A_1 e^{i(G_1)} + A_2 e^{iG_2}$$

$$= \sqrt{A_1^2 + A_2^2 + A_1 A_2 + 2 \cos(\theta_1 - \theta_2)}$$

tand3 = 
$$\frac{A_3 \text{ Auds}}{A_3 \text{ cosds}} = \frac{A_1 \text{ fund}_1 + A_2 \text{ fund}_2}{A_3 \text{ cosds}}$$