ABdistance d'and rate 1,12 6 hour = t, + t_2 total distance = 2d Since d= r,t, d=r2t2 thèrefore; $t_1 = \frac{d}{r_1}$, $t_2 = \frac{d}{r_2}$ 1.) $2d = r.(t_1+t_2) < = 7 2d = r(\frac{d}{r_1}+\frac{d}{r_2})$ 2世二二个(点+完)。古 2=「(六+六), ==71=「(六+六) $\frac{1 = \frac{\Gamma}{\Gamma}(\frac{1}{\Gamma} + \frac{1}{\Gamma}) = \frac{\Gamma}{\Gamma}$ North/South 4km/h 1= 4 3 km/h East West $r_2 = \frac{2.6.3}{9} = \frac{5}{9}$ > 2 cl = 4 (+,++2) 2d=24 d=12 2.) As seen from the figure A to B distance must involve N/S direction Slovest possible paths fastest possible path:

1= 2rinz
12 km = 2.5 hours

1-4-12 2.43 = 25 4 hoor = 3.4 bmh = 3.5 hov 2.4.6 = 48 c=> 4.8 kmh 4+6 10 2 hour-25 har