	NOTE: MUST DO ON ANOTHER
SH	EFT OF ADDITION OF VECTORS PAPER
<i>,</i>	north 13 West 2.6
	a. Draw a vector diagram, to scale, that represents the situation. To do proble. b. Calculate the resultant velocity (speed and direction).
ië.	468 c. If the river is m wide, how long does it take the boat to reach the other side?
	d. How far downstream is the boat when it reaches the other side?
	2. An airplane flies due west at 126 km/hr, fighting a wind that is blowing due neath at 35 km/hr. Draw a vector diagram, to scale, to represent the situation. Calculate the resultant velocity (speed and direction).
	/300 9 3. A boat crosses a river to a dock 1999 m away in sminutes. The current flows perpendicular to the boat's heading at 350 km/hr. What speed and angle over the ground must the boat proceed to reach the dock? 2.6
	VECTOR RESOLUTION
:	1. A boy pulls a loaded wagon with a force of 🗷 N. The handle makes a 🎏 angle with the ground. What amount of force causes the wagon to move forward?
î	2. A truck weighing 100,000 N is parked on a 150 hill. What force must the parking brake provide to keep the truck from rolling down the hill?
. 3	2340 9.0 2.6 3. A 2000 N safe is rolled up an inclined plane that is 330 m long and 153 m high at the upper end. Calculate (a) the force that tends to make the safe roll down the ramp, and (b) the force that tends to want to break the ramp.
4	A block of wood slides down a 25° ramp at constant velocity. Calculate the coefficient of friction between the block and the ramp.
5	A mirrored ball hangs suspended by 2 cables which make angles with the walls. If the tension in each cable is 3500 N, calculate (a) the weight of the ball and (b) the force trying to pull each cable out of the wall. 2600