PHYSLETS ANSWER SHEET



Forces / Set 2 / Animation 5

Name	Class
<show all="" calculations.="" co<="" explanations="" include="" on="" proper="" require="" td="" units.="" work=""><td>omplete sentences.></td></show>	omplete sentences.>
1) Use kinematics to find the acceleration of "Dumbo th	e elephant-tree" system.
2) Determine the angle between the rope and the horizon	ntal.
3) Draw and label a free body diagram showing all force	as acting on the tree
3) Draw and label a free body diagram showing an force	es acting on the tree.
4) Write an equation for the sum of the forces in the x-d	irection.
5) Write an equation for the sum of the forces in the y-d	irection
3) write an equation for the sum of the forces in the y a	nection.
6) If the mass of the tree is 2100kg, and the coefficient of	of kinetic friction is .30, calculate
the tension F_T in the rope attached to Dumbo.	in in it is in the contract of