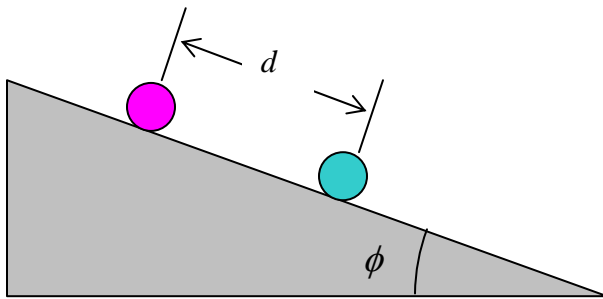


MEGR3121
Homework 2
Due Friday September 2, 2005

Problem 1: Textbook 2/25.

Problem 2: Ball 1 (blue) is released with zero initial speed from the top of a ramp at time $t=0$. At time $t=1.0$ seconds another ball (pink) is released with zero initial speed. The ramp is at an angle $\phi=30^\circ$. Assuming no friction, the acceleration is the component of gravity along the ramp. At time $t=2.5$ sec, what is the distance d between the balls?



Problem 3: Textbook 2/63.

Problem 4: Textbook 2/74.