



An Unscheduled Ride Down the Mountain
The star American skier Lindsey Vonn was airlifted to a hospital after crashing Tuesday at the world championship in Schladming, Austria. Vonn will miss the rest of the season. Page B12.

NEWTON'S 2ND LAW

Unit 6 & 7 Dr. John P.

Cise, Professor of Physics, Austin Community College, 1212 Rio Grande St., Austin Tx 78701 & NYTimes February 6, 2012 by Kelley MvMillan & Bill Pennington

INTRODUCTION: This rescue helicopter is pulling a 480 lb. rescue basket in horizontal X direction containing two rescuers and injured skier Vonn. Neither the helicopter or the rescue basket are accelerating in the vertical Y direction.

QUESTIONS: (a) Find tension T in rescue cable? (b) Find tension components ...vertical(T_y) and Horizontal(T_x)? (c) Find mass(in slugs) of rescue basket? (d) Find horizontal acceleration a_x of rescue basket and helicopter ?

HINTS: $F_{net} = ma$, $g = 32 \text{ ft/s}^2$, $W=mg$

ANSWERS: (a) $T = \sim 497 \text{ lb.}$
(b) $T_y = 480 \text{ lb.}$, $T_x = 128.6 \text{ lb.}$
(c) 15 slugs (d) $a = \sim 8.57 \text{ ft/s}^2$

Crash Injuries End Vonn's Season, but Not Her Hopes



safety and protecting people on our streets or in our homes when making bail decisions.

"This makes no sense and certainly does not serve the best interests of our communities and

state" if civilian leaders failed to restore order. And the interior minister warned that armed militias could take over if his forces gave way. But behind the mayhem hopes.

worry about timing, she recalled, was a tight window between wrapping movies in 2012 and filming a "Captain America" sequel in 2013. Broadway was happy to ac-



On Broadway, a movie star can seal a show's success. From left, Scarlett Johansson in "Cat on a