# Advanced Math 6-4 

(Day 2)

## Vectors: Components and Work

Work - Work $=$ Force $\cdot$ distance

Common units of work are foot-pounds or Newton-meters.

52.83 12
= $633.96 \mathrm{Ft} \cdot \mathrm{bs}$
*2) Calculate the work in pushing a wheelbarrow filled with 125 lbs of concrete up a ramp at $25^{\circ}$ from the horizontal and 12 feet in length parallel
Prog (Parallel)
$\cos 65^{\circ}=\frac{1 \omega_{1} 11}{12 S}$
$52.83=\| \omega_{1} 11$
52.83 bs


> Assignment:
> pg. 553 43,44,
> $47-52$ all.

