## 2.3 Quizlette – How Far - Two Part Problems

Name\_

## 1. An airplane reaches a speed of 52.0 m/s from rest on a runway that is 890. m long. What is its speed when it has gone only 100. m down the runway?

A. An airplane reaches a speed of 52.0 m/s from rest on a runway that is 890. m long. (solve for acceleration)

X =	Formula
$V_i =$	Show your steps
$V_{f} =$	
a =	
t =	

B. What is its speed when it has gone only 100. m down the runway? (use the acceleration from part A)

X =	Formula
$V_i =$	Show your steps
$V_{f} =$	
a =	
t =	

## 2. A car reaches a speed of 27.0 m/s from rest in 6.20 s. What distance did it travel as it accelerated from 18.0 m/s to 24.0 m/s?

A. A car reaches a speed of 27.0 m/s from rest in 6.20 s. (solve for acceleration)



B. What distance did it travel as it accelerated from 18.0 m/s to 24.0 m/s? (use the acceleration from part A)

X =	Formula	
$V_i =$	Show your steps	
$V_{f} =$		
a =		
t =		