

Chapter 7 Review:

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## Warm-Up

- 1.) How many wheelchairs must be sold for the company to break even?
- 2.) At the break even point, what is the cost? What is the revenue?
- 3.) At least how many wheelchairs must be sold for the company to make a profit?
- 4.) Fewer than how many wheelchairs sold will result in a profit loss?
- 5.) Use the revenue and cost functions to write the profit function.
- 6.) Is there a profit if 2000 wheelchairs are produced and sold? 5000?
- 7.) What is the profit if 4000 are produced?

## Will there be any graphs?

yes.  $y = \sin x$   
 $y = \cos x$

they must be very accurate... 502 and  
510.... section 4.5 in general

## How many partial fractions?

One of each type: linear repeated, linear nonrepeated,  
quadratic repeated and quadratic nonrepeated

## How many systems and what types?

2 problems with two variables but one is ugly... 7.1: #15 and 16  
2 problems with three variables ... one is ugly... 7.2: #17

## What other review is on this?

2 convert radians/degrees...

Find the value of trig functions given: 1.) given sin and cos.... 2.) given a point not on the unit circle

All of this is multiple choice....

## Are there any application problems?

Yes. cost/revenue pg 725 #67-72

Yes. there are two system of equation word problems...

one is mixing candy #59

the other is making a chicken enclosure see example from lecture

## Calculators?

Without a calculator: ten points extra credit...

## Nonlinear systems? ... 7.4

two of em

one addition, one substitution