Algebra II pg 199						
2)	-7 × 8	9ft × 12ft	22)	300 calculators		
4)	-9 and -7 7 and 9	8cm x 16cm	24)	5×11 m or 5.5 × 10m		
6)	9 Ft x 24 Ft	100Ft, 5 sec	26)	skip		
8)	8mi , 15mi	2.5 sec	28)	6m×9m		
10)	10cm	10 sec	30)	20yd x 50yd		

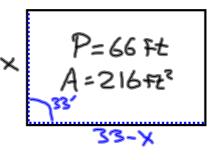
Nov 13-2:03 PM

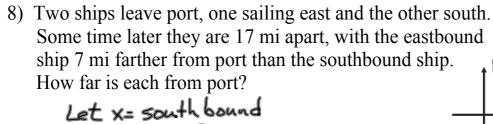
2)	Find	a nun	iber t	hat is	56	less	than	1ts	square).

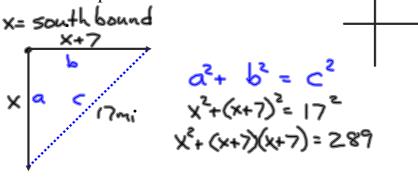
4) Find two consecutive odd integers the sum of whose squares is 130.

Nov 13-2:10 PM

6) A rectangular garden has perimeter 66 ft and area 216 ft². Find the dimensions of the garden.







E.

Nov 13-2:11 PM

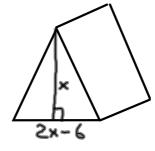
10) The height of a triangle is 7 cm less than the length of its base, and its area is 15 cm².

12) The side of a large tent is in the shape of an isosceles triangle whose area is 54 ft² and whose base is 6 ft shorter than twice its height. Find the height and the basde of the side of the side of the tent.

Let x= height

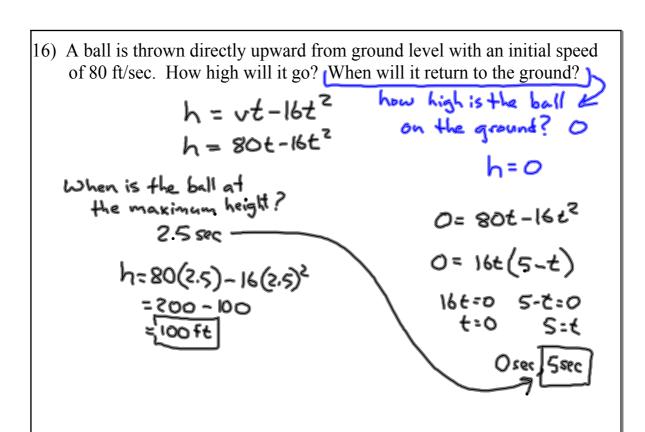
$$2x-6 = base$$

Area = $\frac{1}{2}bh$
 $54 = \frac{1}{2}(x)(2x-6)$
 $54 = x^2-3x$



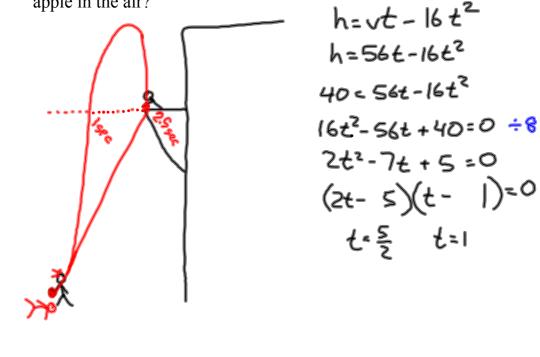
Nov 15-8:44 AM

14) A rectangle is twice as long as it is wide. If its length is increased by 4 cm and its width is decreased by 3 cm, the new rectangle formed has an area of 100 cm². Find the dimensions of the original rectangle.



Nov 15-8:48 AM

18) Luis wanted to throw an apple to Kim, who was on a balcony 40 ft above him, so he tossed it upward with an initial speed of 56 ft/sec. Kim missed it on the way up, but then caught it on the way down. How long was the apple in the air?



Nov 15-8:49 AM

20) A ball is thrown upward from the top of a 98-meter tower with an initial speed of 39.2 m/s. How much later will it hit the ground?

Nov 15-8:50 AM

22) The cost C of manufacturing n calculators per day at a certain plant is given by C = n (20 - 0.01n) + 100. The size of the plant limits the maximum output to 500 calculators per day. If the company plans to invest \$5200 per day in manufacturing costs, how many calculators per day can it manufacture?

$$5200 = n(20-.01n) + 100$$

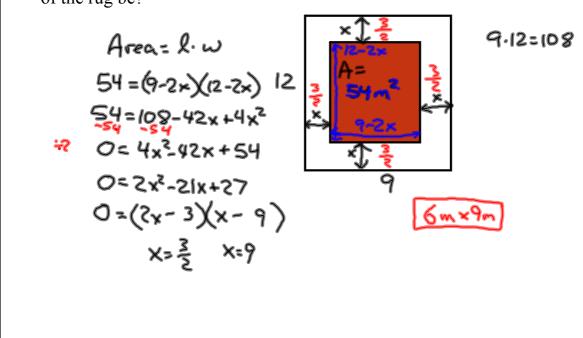
 $5200 = 20n - .01n^{2} + 100$
 $0.01n^{2} - 20n + 5100 = 0$
 $n^{2} - 2000 + 510000 = 0$
 $(n-300) + 510000 = 0$
 $(n-300) + 510000 = 0$

300 calculators

24) A farmer plans to use 21 m of fencing to enclose a rectangular pen having area 55 m². Only three sides of the pen need fencing because part of an existing wall will form the 4th side. Find the dimensions of the pen.

Nov 15-8:54 AM

28) A decorator plans to place a rug in a room 9 m by 12 m in such a way that a uniform strip of flooring around the rug will remain uncovered. If the rug is to cover half the floor space, what should the dimensions of the rug be?



30)	30) A rancher plans to use 160 yd of fencing to encloses a rectangular corral and to divide it into two parts by a fence parallel to the shorter sides of the corral. Find the dimensions of the corral if its area is 1000 yd ² .						