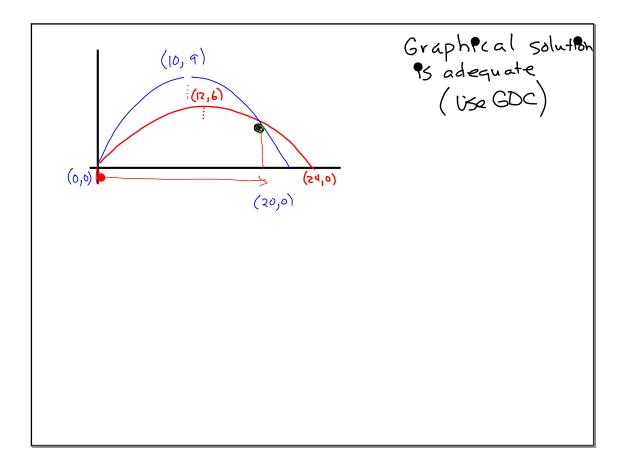
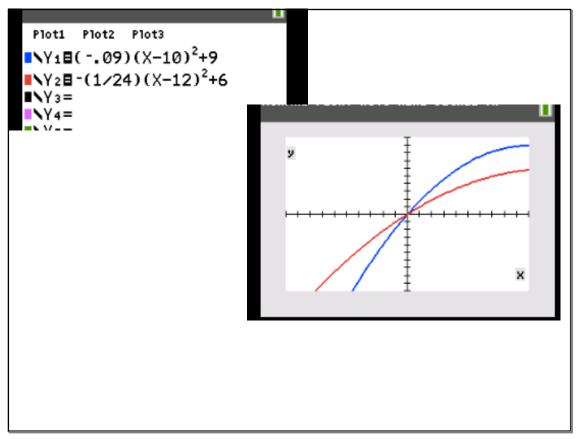


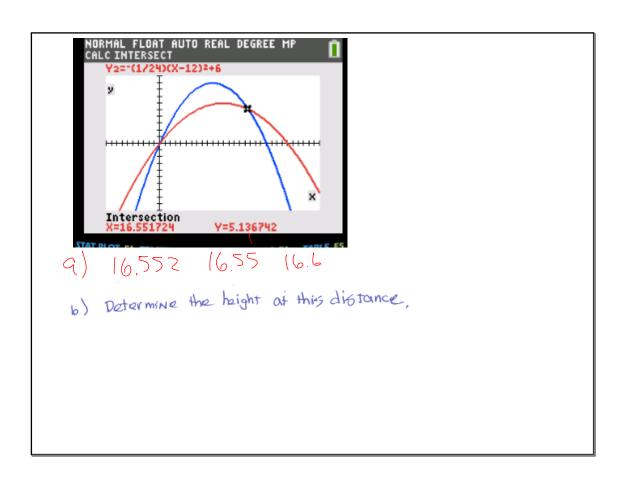
We came up with ,
$$y = -\frac{1}{24}(x-12)^2+6$$

a) Find the distance from the kicking spot where the heights are the same, (You can use graphical mothers)



Notes from 4.1.4 November 15, 2017





Questions on HW

40

Notes from 4.1.4

$$y = 2(x+3)^{2} - 5 \qquad y = |4x+17|$$

$$2(x+3)(x+3) - 5 = |4x+17|$$

$$2(x+3)(x+3) = |4x+22|$$

$$2x^{2} + 6x + 6x + 18 = |4x+22|$$

$$2x^{2} - 2x - 1 = 0$$

(a)
$$y = 3(x-2)^2 + 3$$
 $y = (6x-12)$



$$a 3(y+1)^2-5=43$$

$$\int \int |-4x| = 10$$

$$\bigcirc \frac{6y-1}{y} - 3 = 2$$

$$\frac{(6y-1)}{y} = 5$$

(a)
$$\sqrt[3]{1-2x} = 3$$

is a checkpoint V -meaning you should be close to mostery

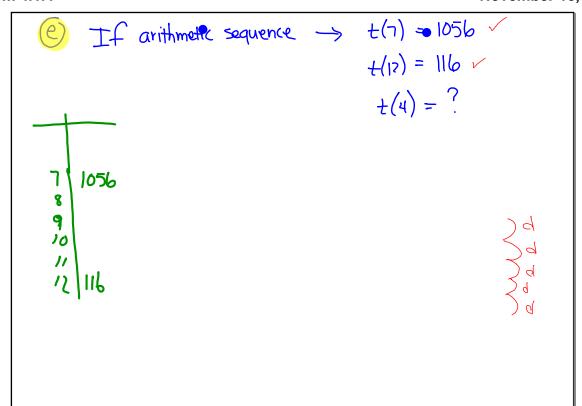
(b)
$$3, \frac{3}{2}, \frac{3}{4}, \frac{3}{8}$$
 multiplier •

Explicit
$$t(n) =$$

Recursive $\int t(1) = 3$
 $\int t(n+1) =$

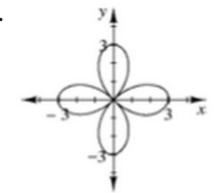
$$\begin{array}{c|c}
\hline
\text{Arithmetic} \\
\underline{n \mid t(n)} \\
\hline
0 \mid 17 \\
2 \\
3 \\
4
\end{array}$$
Explicit: $t(n)$

Recursive $t(n) = t(n+1) =$

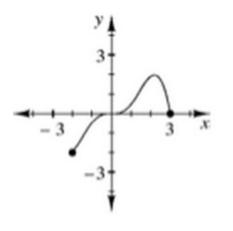


45

a.



b.



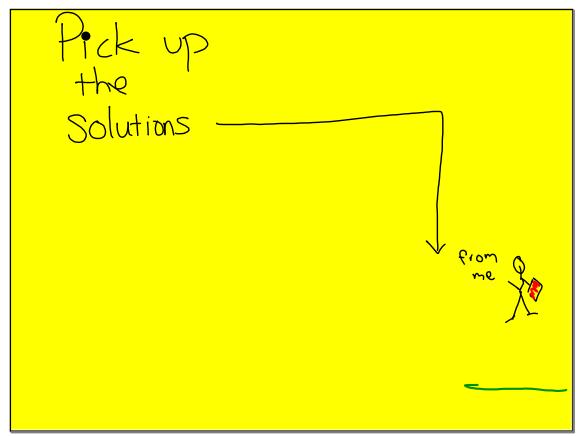
$$2^{x+y} = 16$$

$$Q^{1X+9} = \frac{1}{8}$$

File Solve system
$$2^{x+y} = 16$$

$$2^{(x+y)} = 16$$

$$2^{(x+y)} = 16$$



Aim

Create a System of Equations to solve to solve to solve a problem

The soccer free kick problem from the warm up was an example of this.

As you work on the two problems to day, be thinking about thems

How can we model it?.
What does the solution tell us?
Are there any new Strategies
that might be useful.

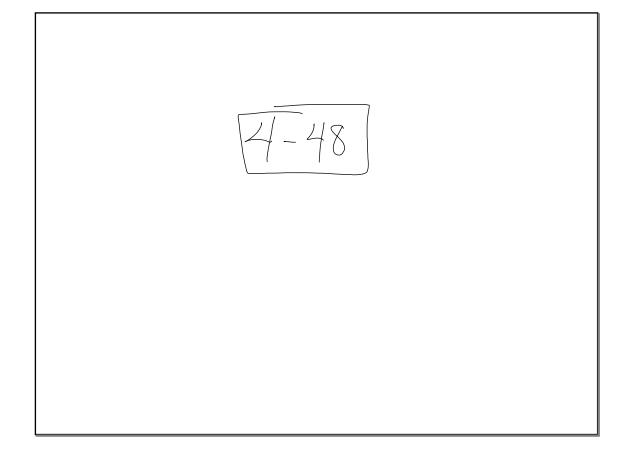
When you get an answer, ask yourself

Is my answer really my answer?

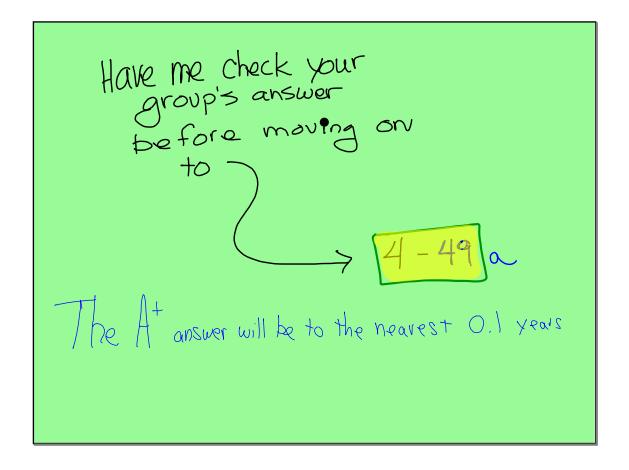


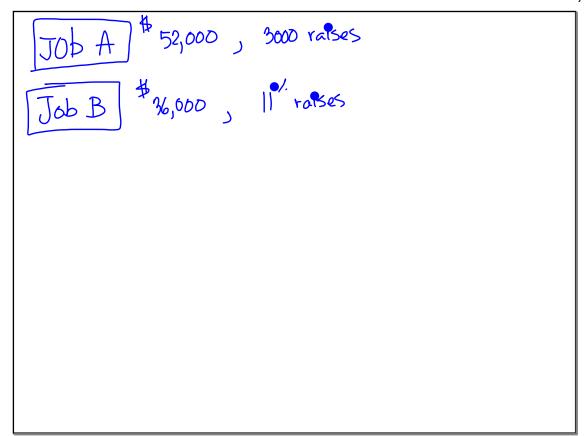
Goal: Set up and solve both

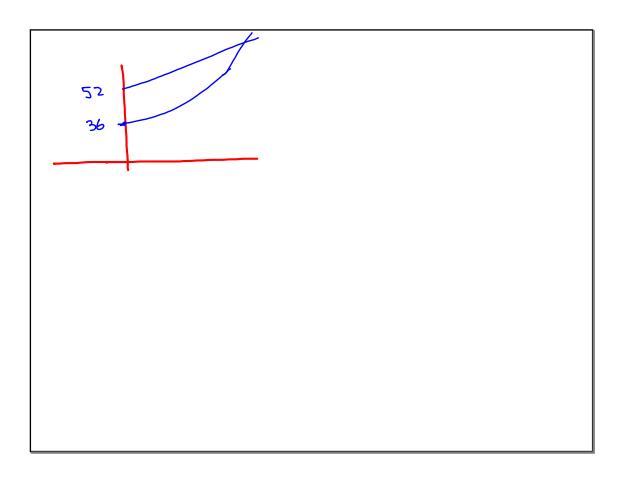
Persistence



Notes from 4.1.4 November 15, 2017



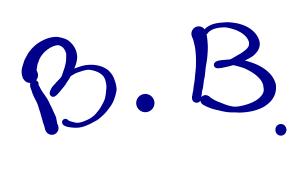




$$y = 52000 x + 3000$$

$$y = 36000 (1.11)^{x}$$

$$52000 \times + 3000 = 36000 (1.11)$$



Assignment

A worksheet and three problems from your textbook, which are listed on the worksheet.

4.... 48, 52-53

4.1.4

47 define variables

i.e.
$$a = cost$$
 of chocolate truffles

 $b = cost$ of caramel tartles