

## Practice hints.

1. graph on calculator. where does it cross x axis?
  2. graph, set viewing window  
x min 0                      y min 0  
x max 10                     y max 200  
                                     y scale 10
  3. isolate radical first
  4. 3 transformations listed
  5. what is the degree of the function
  6. 3 methods to solve a quadratic roots are the solutions
  7. <sup>STEP 1</sup> what are you being told?  
"the remainder when dividing by  $(x-1)$  is 15"  
means  $f(1) = 15$  use this info to find a.
  - <sup>STEP 2</sup> find remainder when dividing by  $(x+3)$
  8. think about what the number in front of the function does make yourself an example. like  $3(x-2)^2+1$ . What does the 3 do?
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9. Volume =  $L \cdot W \cdot H$

set up a volume function with the data given.

graph the function and determine "realistic" domain remember

$L, W, H \Rightarrow V$  cannot be negative  
so you only care about the 1<sup>st</sup> quadrant

10. graph each function on your calculator remember what to look at for range.

11. radical is already isolated square both sides you end up with a quadratic to solve. Put each solution back into the original equation to find extraneous solutions

12. use quadratic formula.

13. substitute 66 for  $s$  & solve for  $x$

14. what does the degree (highest exponent) tell you about end behavior

15. graph to find vertices then plug in formula

16. foil

17. stat/edit to enter data  
stat/calc to create quadratic model

18. graph.

19. a. look at degree  
b. graph  
c. ① synthetic division  
② quadratic formula

20. a. use calculator to find vertex  
+ plug into vertex form  $y = a(x-h)+k$   
b. parent function is  $f(x) = x^2$