Math-2	Name	ID: 1
© 2018 Kuta Software LLC. All SM2 HW #4-1 (Abs Val)	rights reserved. Date	Period
1) What is the vertex? y = 4 x-3  + 5	2) Describe the transformation of the absolute value parent function.	2

- 3) Describe what it means to say the a parent function has been vertically stretched by a factor of 2.
- 4) If there is no vertical stretch, what is the value of the vertical stretch factor?

y = -3 |x - 5| - 7

5) Why do we say that there is no such thing as a negative vertical stretch factor?

6) The pattern we look for when determining how a parent function has been transformed is very similar for each function.

Absolute Value function: y = a |x - h| + kRewrite the each of the function to show: reflect (x-axis), VSF-3, left 2, up 4:

## Write the slope-intercept form of the equation of the line through the given points.

7) through: (-5, 2) and (-1, 5)

8) Name the six ways to show a relation between "input" and "output".

9) a) What is the vertex? (b) What is the equation of the graph?



11) a) What is the vertex? (b) What is the equation of the graph?



13) Is the following relation a function? If not, explain why it is not.



10) a) What is the vertex? (b) What is the equation of the graph?



12) a) What is the vertex? (b) What is the equation of the graph?



- 14) Convert the following x-y pairs into "function notation".
  - (2, 3), (0, 5)