Types of Functions Worksheet
Algebra 1

For #1-15, state whether or not each graph shows a function. If it is a function, say whether it is linear, quadratic, absolute value, exponential, or none of the above.

1. [Graph]
   Function? Yes or No
   Type of Function: ____________

2. [Graph]
   Function? Yes or No
   Type of Function: ____________

3. [Graph]
   Function? Yes or No
   Type of Function: _____

4. [Graph]
   Function? Yes or No
   Type of Function: ____________

5. [Graph]
   Function? Yes or No
   Type of Function: ____________

6. [Graph]
   Function? Yes or No
   Type of Function: _____

7. [Graph]
   Function? Yes or No
   Type of Function: ____________

8. [Graph]
   Function? Yes or No
   Type of Function: ____________

9. [Graph]
   Function? Yes or No
   Type of Function: _____
For #16-20, state what type of function each equation shows (linear, quadratic, absolute value, or exponential). Then say what shape the graph will be (line, “u”, “\(v\)”, or curve).

16. \( y = x^2 + 2x - 1 \)  
   Function: _______________________  Shape: _____________

17. \( y = -3x + 1 \)  
   Function: _______________________  Shape: _____________

18. \( y = 3^x \)  
   Function: _______________________  Shape: _____________

19. \( y = 2|x| + 1 \)  
   Function: _______________________  Shape: _____________

20. \( y = \frac{2}{3}x - 4 \)  
   Function: _______________________  Shape: _____________