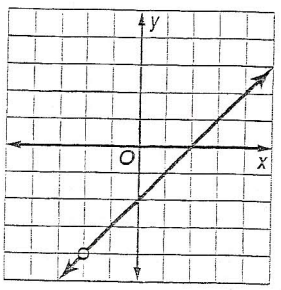
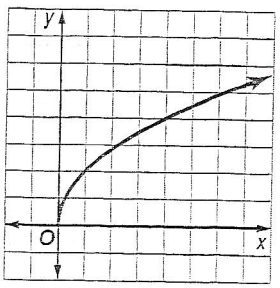
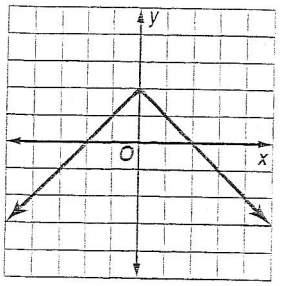
SECONDARY MATH III
RATIONAL EXPRESSIONS
WS 8.5 CLASSES OF FUNCTIONS

NAME_____
DATE_____
CLASS_____

Identify the type of function represented by each graph.

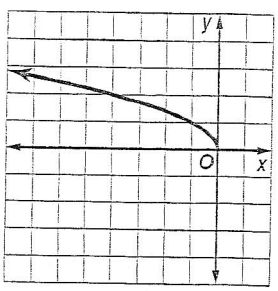
1. 

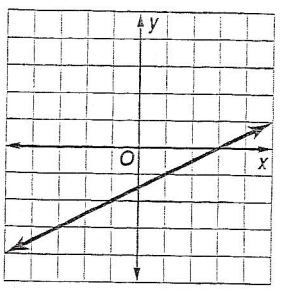
2. 

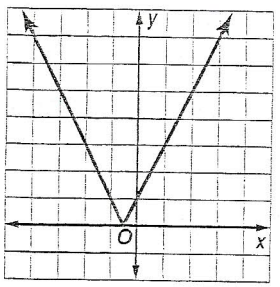
3. 

Match each graph with an equation below.

A. $y = |2x + 1|$ B. $y = [\![2x + 1]\!]$ C. $y = \frac{x - 3}{2}$ D. $y = \sqrt{-x}$

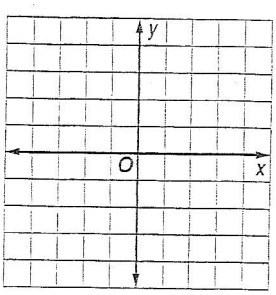
4. 

5. 

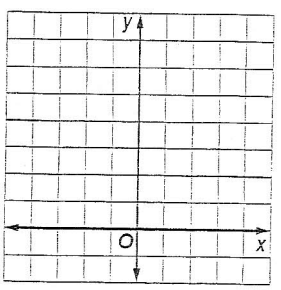
6. 

Identify the type of function represented by each equation. Then graph the equation.

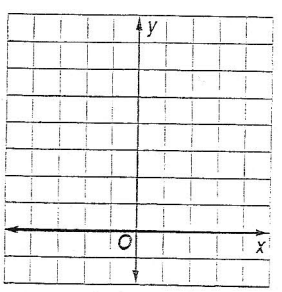
7. $y = -3$



8. $y = 2x^2 + 1$



9. $y = \frac{x^2 + 5x + 6}{x + 2}$



10. **BUSINESS** A startup company uses the function $P = 1.3x^2 + 3x - 7$ to predict its profit or loss during its first 7 years of operation. Describe the shape of the graph of the function.

11. **PARKING** A parking lot charges \$10 to park for the first day or part of a day. After that, it charges an additional \$8 per day or part of a day. Describe the graph and find the cost of parking for $6\frac{1}{2}$ days.