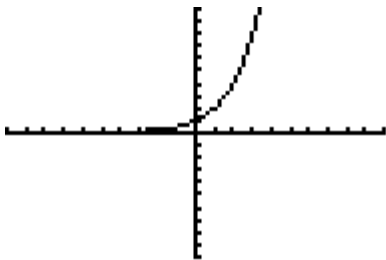


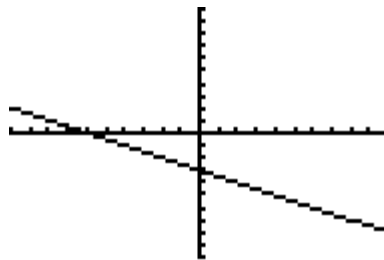
**Enrichment**  
**Objective 4.01, 4.02, 4.04**  
**Identifying Functions**

Match each graph with the appropriate equation listed at the bottom and name the type of function.

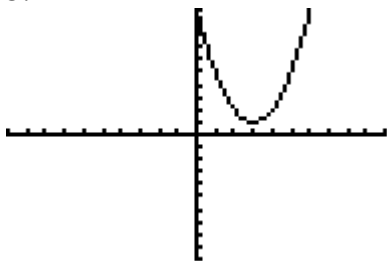
1.



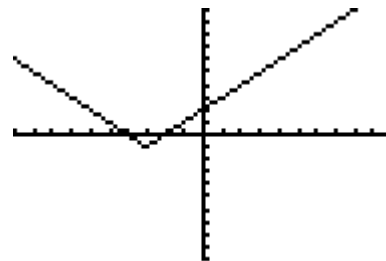
2.



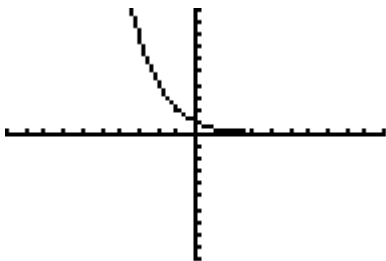
3.



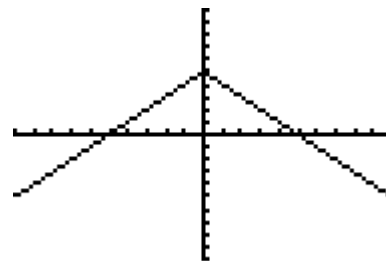
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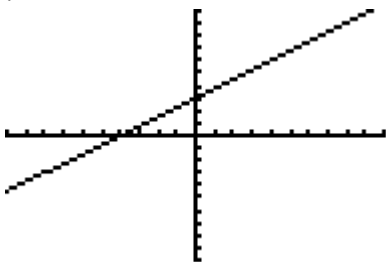
5.



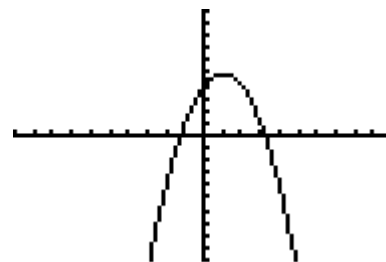
6.



7.



8.



- |                  |                  |                     |                |                       |
|------------------|------------------|---------------------|----------------|-----------------------|
| A. $y=(x-3)^2+1$ | B. $y=-2^x$      | C. $y=\frac{1}{2}x$ | D. $y=2^x$     | E. $y=\frac{3}{4}x+3$ |
| F. $y=- x +5$    | G. $y=-x^2+2x+4$ | H. $y=-1/2x-3$      | I. $y= x+3 -1$ | J. $- x+5 $           |

Part II

Identify the type of function each table represents.

1.

X	Y <sub>1</sub>
-3	12
-2	7
-1	4
0	3
1	4
2	7
3	12

X=0

2.

X	Y <sub>1</sub>
-3	6
-2	4
-1	2
0	0
1	2
2	4
3	6

X = -3

3.

X	Y <sub>1</sub>
-3	.03704
-2	.11111
-1	.33333
0	1
1	3
2	9
3	27

X = -3

4.

X	Y <sub>1</sub>
-3	3
-2	2
-1	1
0	0
1	-1
2	-2
3	-3

X = -3

Answers:

Part I

1. D exponential 2. H linear 3. A quadratic 4. I absolute value 5. C exponential  
 6. F absolute value 7. E linear 8. G quadratic

Part II

1. quadratic 2. absolute value 3. exponential 4. linear