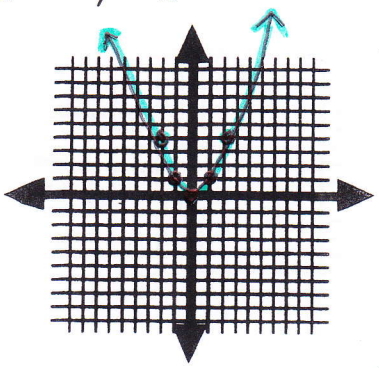
Key

More Parent Graphs

Create a t-table for each function. Then graph.

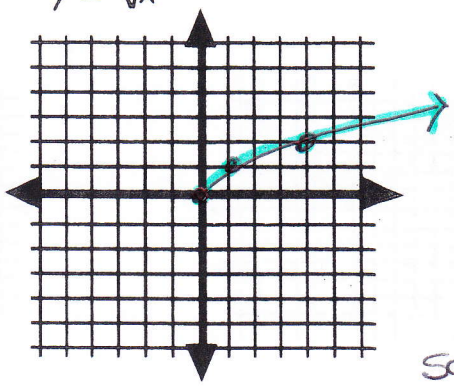
1. $y = x^2$



x	y
-2	4
-1	1
0	0
1	1
2	4

Quadratic

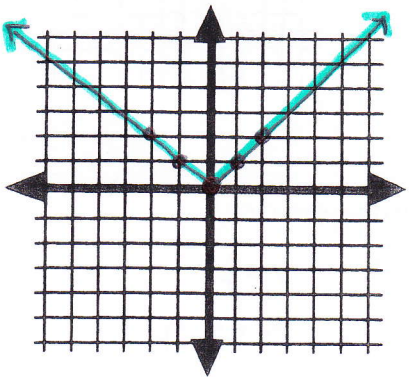
2. $y = \sqrt{x}$



x	y
-4	und.
-1	und.
0	0
1	1
4	2

Square root

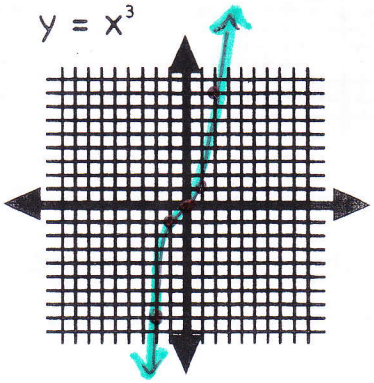
3. $y = |x|$



x	y
-2	2
-1	1
0	0
1	1
2	2

Absolute Value

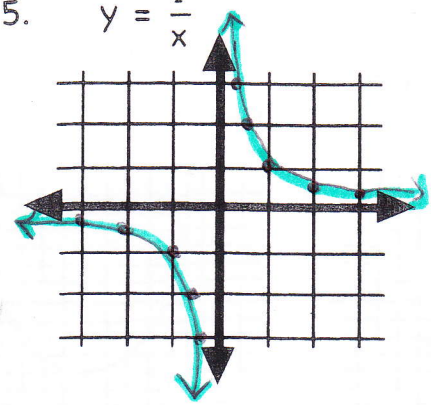
4. $y = x^3$



x	y
-2	-8
-1	-1
0	0
1	1
2	8

Cubic

5. $y = \frac{1}{x}$

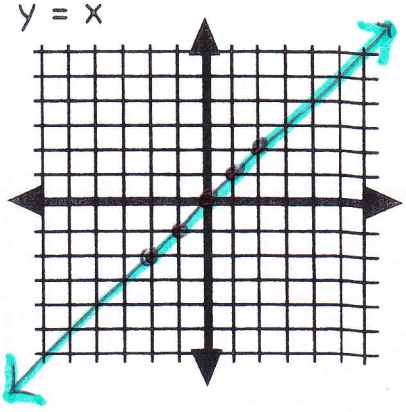


x	y
-4	$-\frac{1}{4}$
-3	$-\frac{1}{3}$
-2	$-\frac{1}{2}$
-1	-1
0	undefined
1	1
2	$\frac{1}{2}$
3	$\frac{1}{3}$
4	$\frac{1}{4}$

x	y
$-\frac{1}{2}$	-2
$\frac{1}{2}$	2

rational

6. $y = x$



x	y
-2	-2
-1	-1
0	0
1	1
2	2

Linear

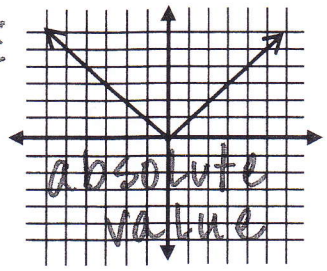
More Parent Graphs

Match the graph with the equation. Then give the name of the function.

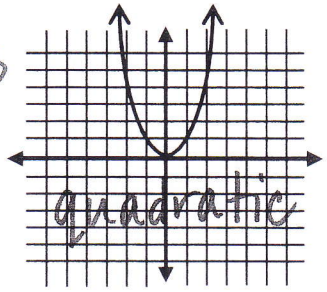
a. $y = x$ b. $y = x^2$ c. $y = x^3$

d. $y = \sqrt{x}$ e. $y = |x|$ f. $y = \frac{1}{x}$

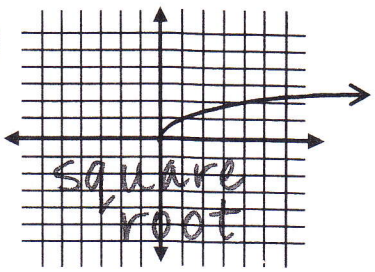
1. E



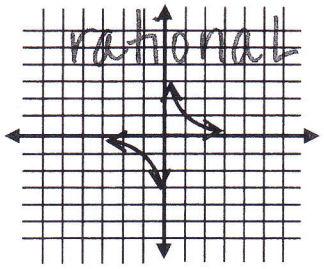
2. B



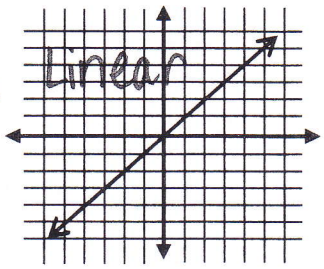
3. D



4. F



5. A



6. C

Create a t-table for each equation using the given domain (integers only).

7. $y = x^2$

D: [3, 6]

x	y
3	9
4	16
5	25
6	36

8. $y = \frac{1}{x}$

D: [-3, 0]

x	y
-3	$-\frac{1}{3}$
-2	$-\frac{1}{2}$
-1	-1
0	undefined

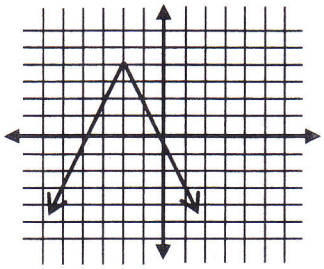
9. $y = |x|$

D: [-2, 2]

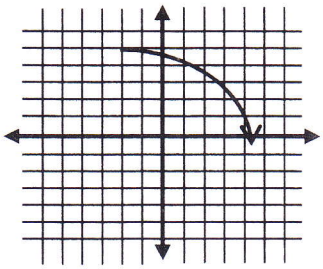
x	y
-2	2
-1	1
0	0
1	1
2	2

Identify the parent graph by name for which the graph is related.

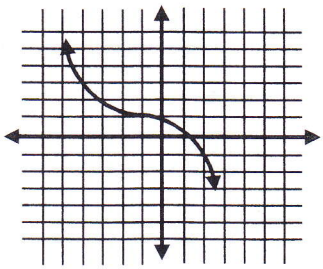
10. absolute value



11. sq. root



12. cubic



13. quadratic