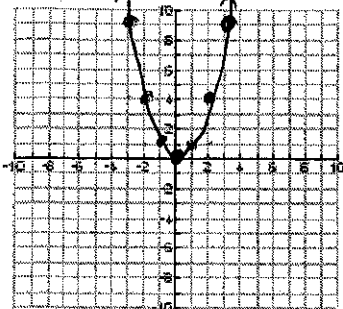


Graphing Functions Accurately

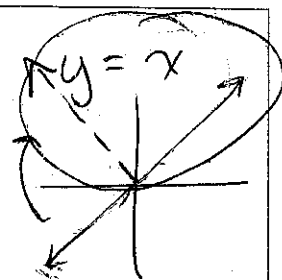
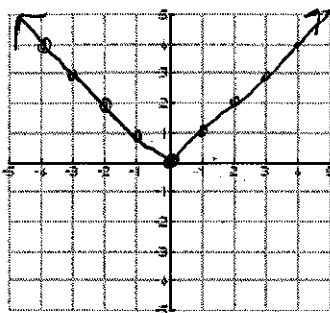
$y = x^2$

1, 3, 5 rule

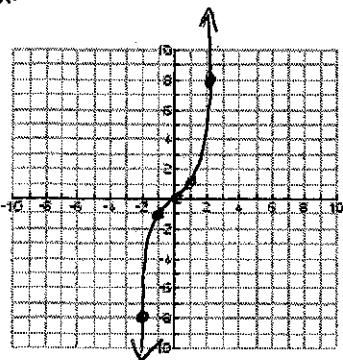


x	y
0	0

$y = |x|$

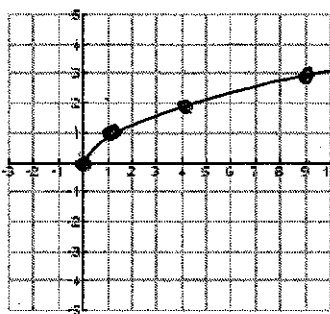


$y = x^3$



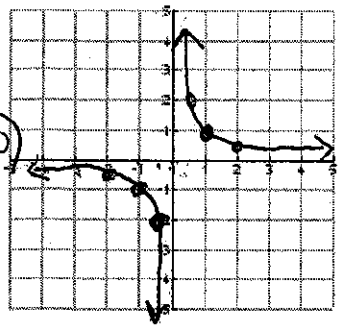
x	y = x^3
-2	$(-2)^3 = -8$
-1	$(-1)^3 = -1$
0	0
1	$1^3 = 1$
2	$2^3 = 8$

$y = \sqrt{x}$



x	y
0	0
1	1
4	2
9	3

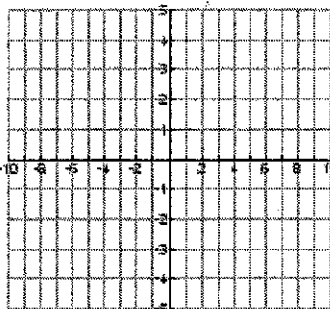
$y = \frac{1}{x}$



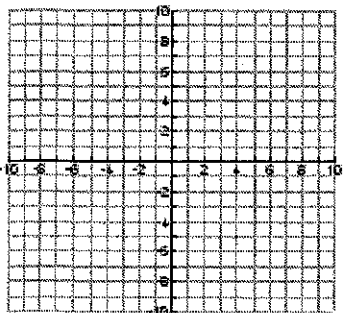
D: $\{x | x \neq 0\}$
 $(-\infty, 0) \cup (0, \infty)$

x	y
-2	$-\frac{1}{2}$
-1	-1
$-\frac{1}{2}$	$\frac{1}{-\frac{1}{2}} = 1(-2) = -2$
0	$\frac{1}{0} = \text{undefined}$
2	$\frac{1}{2}$
1	1
$\frac{1}{2}$	2

$y = x^{\frac{1}{3}} = \sqrt[3]{x}$



$y = x$



$y = x^{\frac{2}{3}} = (\sqrt[3]{x})^2$

