

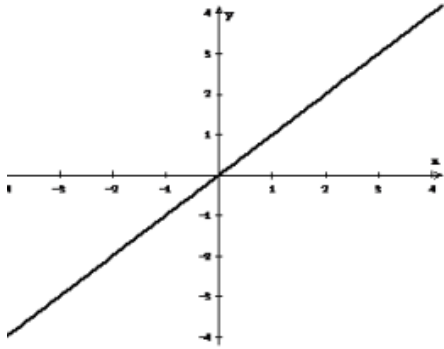
Math 3 Guided Notes Unit 1 Day 3 - Types of Graphs

Type 1: Linear

Parent Function $f(x) = x$

Domain _____

Range _____



Finding as Pattern Using Rate of Change

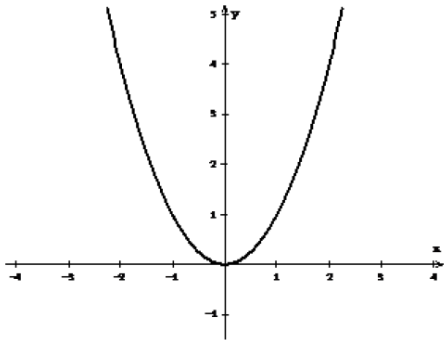
x	-4	-2	0	2	4	6
$f(x)$	-8	4	0	4	8	12

Type 2: Quadratic

Parent Function $f(x) = x^2$

Domain _____

Range _____

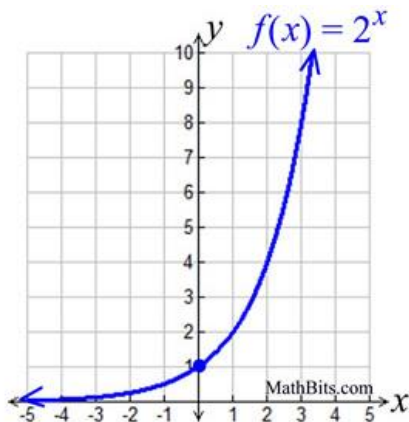


Finding as Pattern Using Rate of Change

x	0.5	1	1.5	2	2.5	3
$f(x)$.25	1	2.25	4	6.25	9

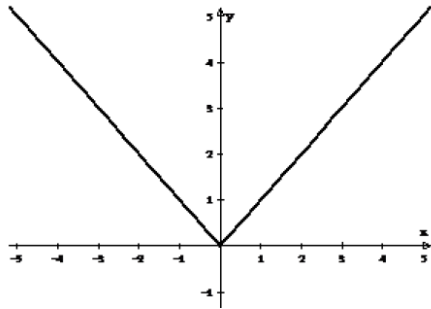
Type 3: Exponential

Finding as Pattern Using Rate of Change



x	-2	-1	0	1	2	3
$f(x)$	1/9	1/3	1	3	9	27

Type 4: Absolute Value

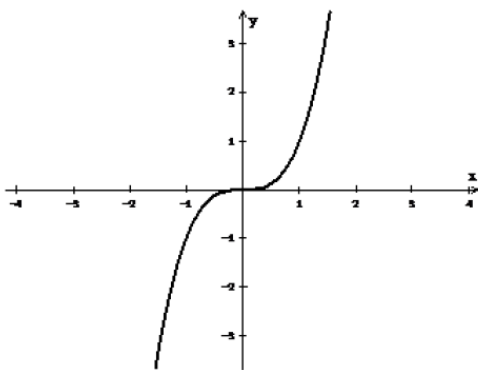


Parent Function $f(x) = |x|$

Domain _____

Range _____

Type 5: Cubic



Parent Function $f(x) = x^3$

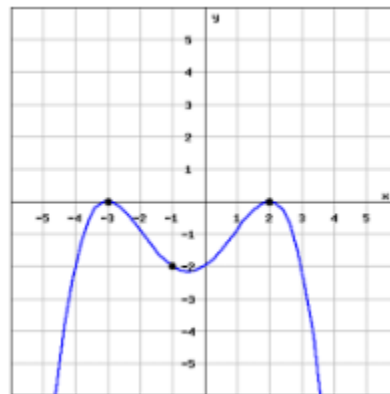
Domain _____

Range _____

Type 6: Quartic

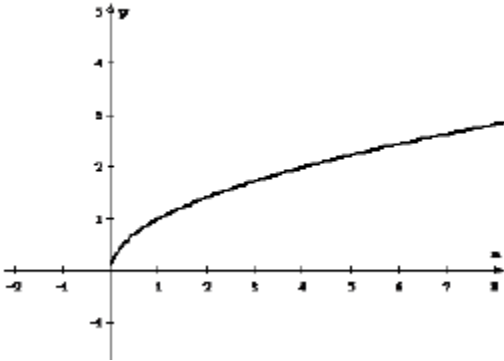
➤ also called a _____ or square of a _____.

Parent Function $f(x) = ax^4 + bx^3 + cx^2 + dx + e$.



Type 7: Radical

➤ also called a _____ function.

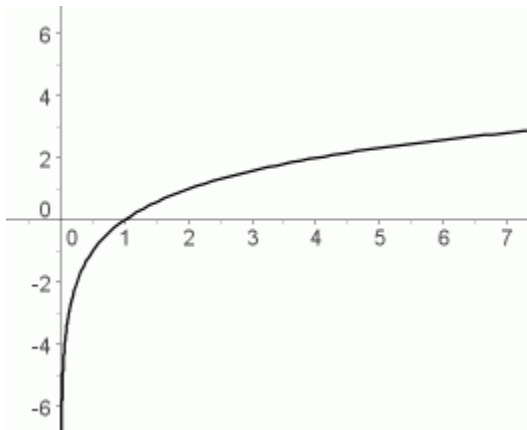


Parent Function $f(x) = x^3$

Domain _____

Range _____

Type 8: Logarithmic



Parent Function $f(x) = \log x$

Domain _____

Range _____