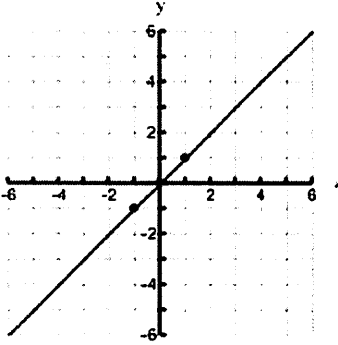
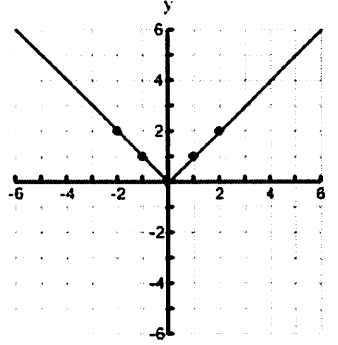
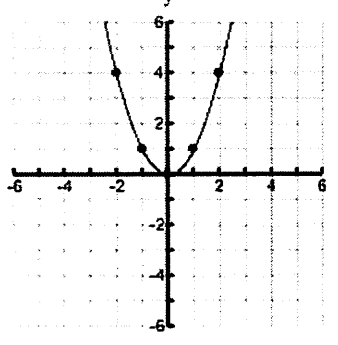
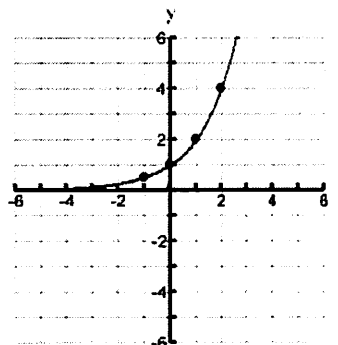
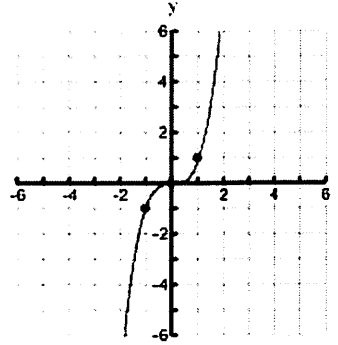


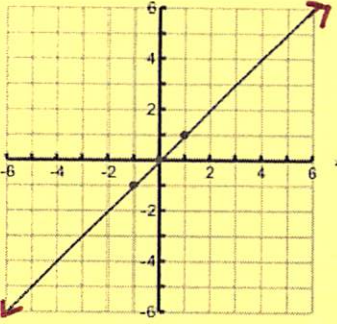
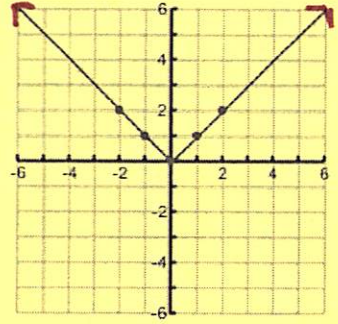
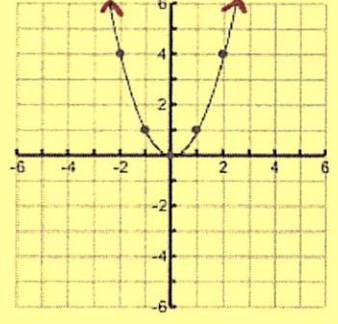
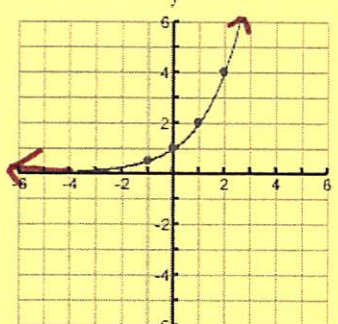
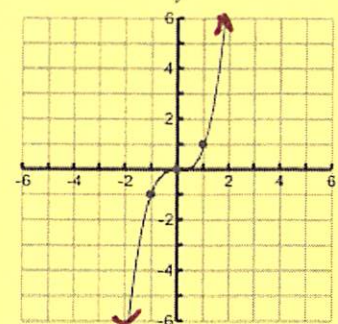
Algebra 1 Parent Functions

Linear	Absolute Value	Quadratic	Exponential	Cubic
$y = x$ or $f(x) = x$	$y = x $ or $f(x) = x $	$y = x^2$ or $f(x) = x^2$	$y = 2^x$ or $f(x) = 2^x$	$y = x^3$ or $f(x) = x^3$
Domain:	Domain:	Domain:	Domain:	Domain:
Range:	Range:	Range:	Range:	Range:
				

Characteristics

The Graph is...	The Graph is...	The Graph is...	The Graph is...	The Graph is...
Positive:	Positive:	Positive:	Positive:	Positive:
Negative:	Negative:	Negative:	Negative:	Negative:
Increasing:	Increasing:	Increasing:	Increasing:	Increasing:
Decreasing:	Decreasing:	Decreasing:	Decreasing:	Decreasing:

Algebra 1 Parent Functions

Linear	Absolute Value	Quadratic	Exponential	Cubic
$y = x$ or $f(x) = x$	$y = x $ or $f(x) = x $	$y = x^2$ or $f(x) = x^2$	$y = 2^x$ or $f(x) = 2^x$	$y = x^3$ or $f(x) = x^3$
Domain: All Reals $(-\infty, \infty)$ Range: All Reals $(-\infty, \infty)$	Domain: All Reals $(-\infty, \infty)$ Range: $y \geq 0$ $[0, \infty)$	Domain: All Reals $(-\infty, \infty)$ Range: $y \geq 0$ $[0, \infty)$	Domain: All Reals $(-\infty, \infty)$ Range: $y > 0$ $(0, \infty)$	Domain: All Reals $(-\infty, \infty)$ Range: All Reals $(-\infty, \infty)$
				

Characteristics

The Graph is...	The Graph is...	The Graph is...	The Graph is...	The Graph is...
Positive: $(0, \infty)$	Positive: All Reals $x \neq 0$	Positive: All Reals $x \neq 0$	Positive: All Reals	Positive: $(0, \infty)$
Negative: $(-\infty, 0)$	Negative: \emptyset	Negative: \emptyset	Negative: \emptyset	Negative: $(-\infty, 0)$
Increasing: $(-\infty, \infty)$	Increasing: $x > 0$ $(0, \infty)$	Increasing: $(0, \infty)$	Increasing: All Reals	Increasing: $(-\infty, 0) \cup (0, \infty)$
Decreasing: \emptyset	Decreasing: $(-\infty, 0)$	Decreasing: $(-\infty, 0)$	Decreasing: \emptyset	Decreasing: \emptyset