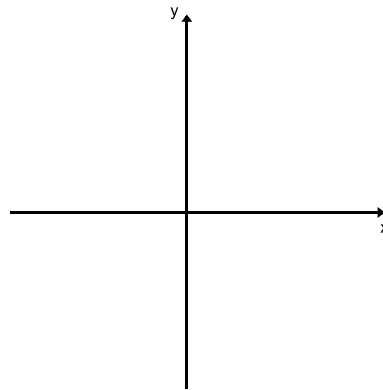


This is $f(x) = x^3$

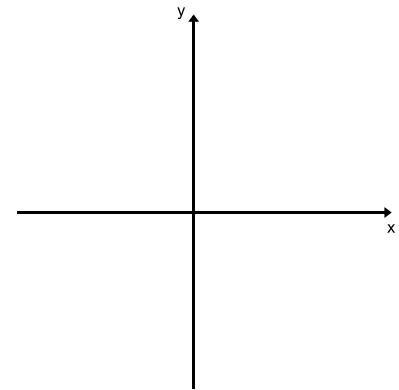
x	-2	-1	0	1	2
f(x)	-8	-1	0	1	8

Sketch $a(x) = 4x^3 + 2$ and complete the table below.

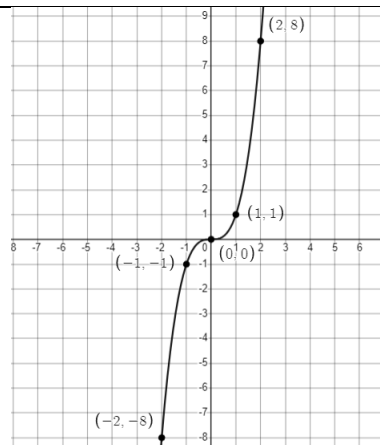


State point of inflection (,)	State y intercept (,)
State any other point (,)	State any other point (,)

Sketch $b(x) = 2(x - 3)^3 + 1$ and complete the table below.



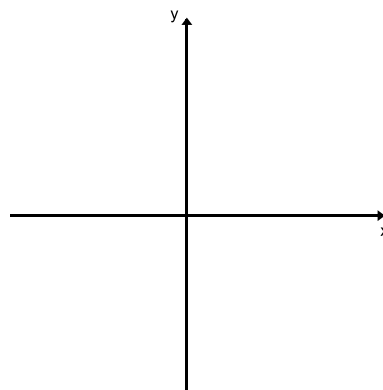
State point of inflection (,)	State y intercept (,)
State any other point (,)	State any other point (,)



This is $f(x) = x^3$

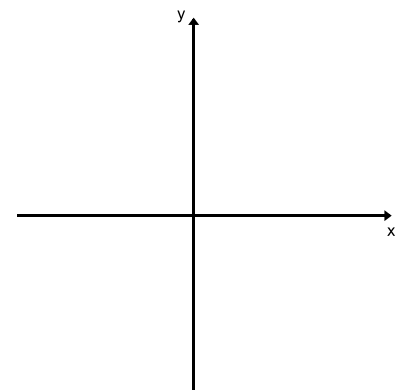
x	-2	-1	0	1	2
f(x)	-8	-1	0	1	8

Sketch $a(x) = 4x^3 + 2$ and complete the table below.

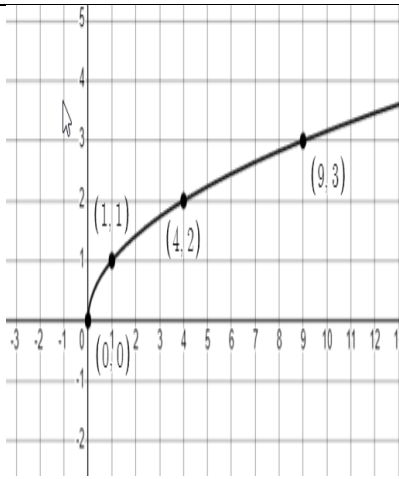


State point of inflection (,)	State y intercept (,)
State any other point (,)	State any other point (,)

Sketch $b(x) = 2(x - 3)^3 + 1$ and complete the table below.



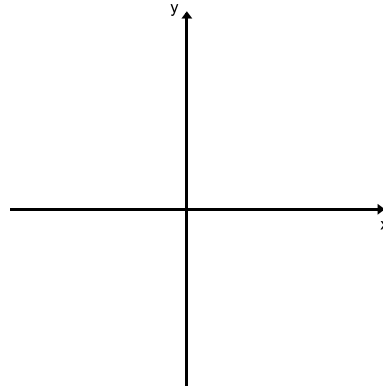
State point of inflection (,)	State y intercept (,)
State any other point (,)	State any other point (,)



This is $f(x) = \sqrt{x}$

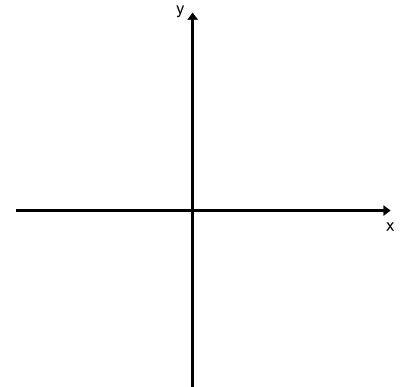
x	-4	-1	0	1	4
f(x)	und	und	0	1	2

Sketch $a(x) = -2\sqrt{x} + 6$ and complete the table below.

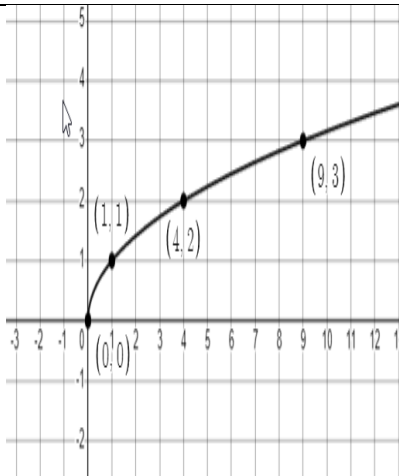


State extreme point (,)	State y intercept (,)
State any other point (,)	State any other point (,)

Sketch $b(x) = \frac{1}{4}\sqrt{x+2} - 4$ and complete the table below.



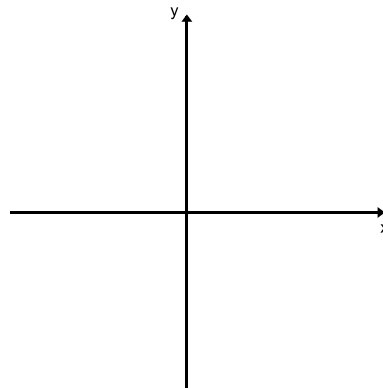
State extreme point (,)	State y intercept (,)
State any other point (,)	State any other point (,)



This is $f(x) = \sqrt{x}$

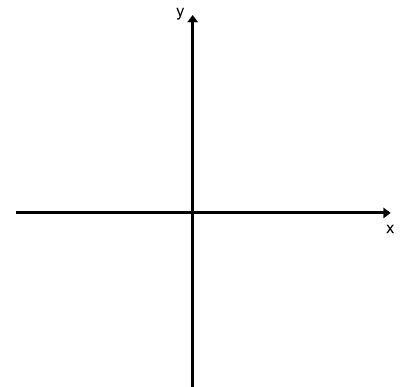
x	-4	-1	0	1	4
f(x)	und	und	0	1	2

Sketch $a(x) = 6\sqrt{x} - 2$ and complete the table below.

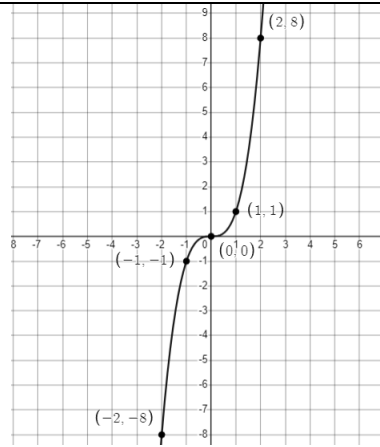


State extreme point (,)	State y intercept (,)
State any other point (,)	State any other point (,)

Sketch $b(x) = \frac{-1}{5}\sqrt{x+5} + 10$ and complete the table below.



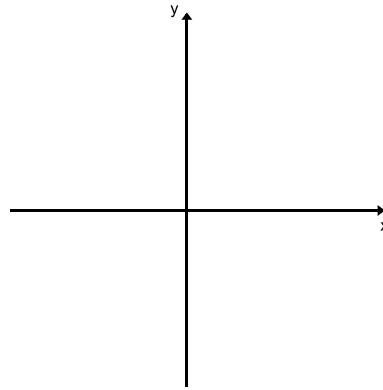
State extreme point (,)	State y intercept (,)
State any other point (,)	State any other point (,)



This is $f(x) = x^3$

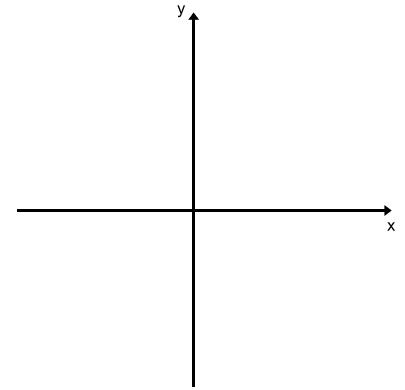
x	-2	-1	0	1	2
f(x)	-8	-1	0	1	8

Sketch $a(x) = -3x^3 - 8$ and complete the table below.

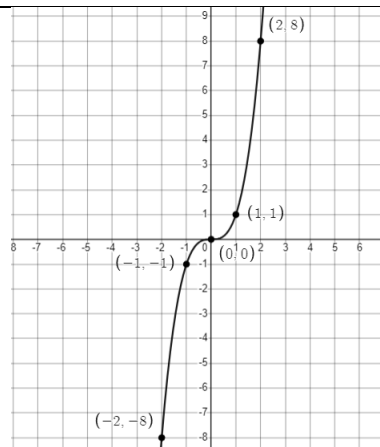


State point of inflection (,)	State y intercept (,)
State any other point (,)	State any other point (,)

Sketch $b(x) = 5(x + 4)^3 - 1$ and complete the table below.



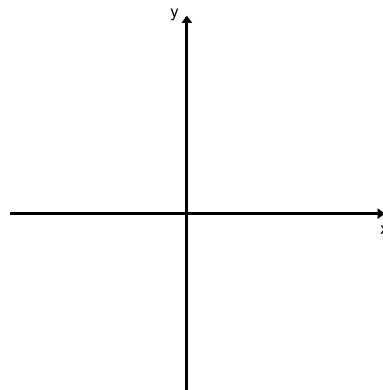
State point of inflection (,)	State y intercept (,)
State any other point (,)	State any other point (,)



This is $f(x) = x^3$

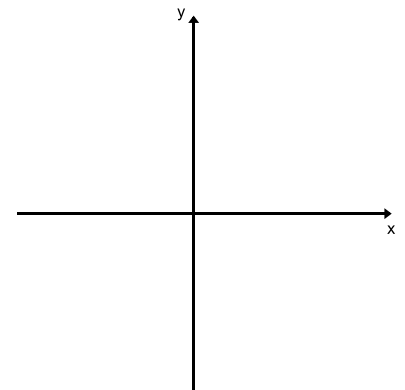
x	-2	-1	0	1	2
f(x)	-8	-1	0	1	8

Sketch $a(x) = 10x^3 - 8$ and complete the table below.

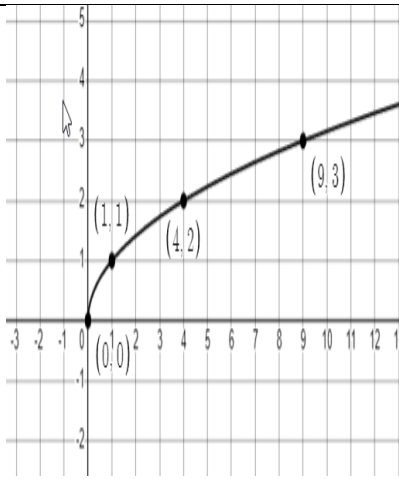


State point of inflection (,)	State y intercept (,)
State any other point (,)	State any other point (,)

Sketch $b(x) = -4(x - 5)^3 - 7$ and complete the table below.



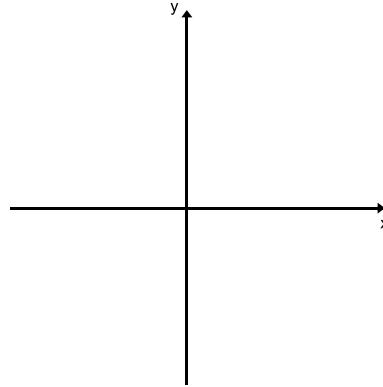
State point of inflection (,)	State y intercept (,)
State any other point (,)	State any other point (,)



This is $f(x) = \sqrt{x}$

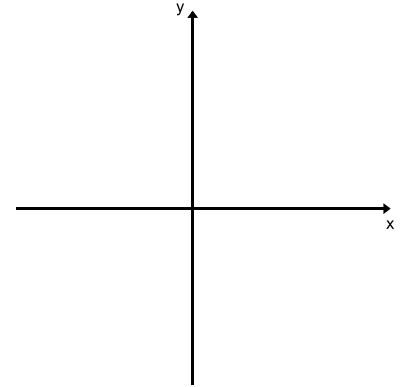
x	-4	-1	0	1	4
f(x)	und	und	0	1	2

Sketch $a(x) = -5\sqrt{x-10} + 1$ and complete the table below.

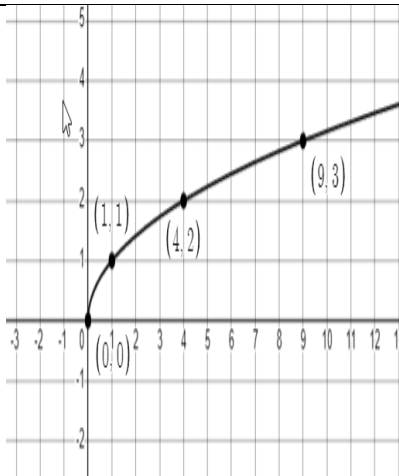


State extreme point (,)	State y intercept (,)
State any other point (,)	State any other point (,)

Sketch $b(x) = \frac{3}{4}\sqrt{x-4}$ and complete the table below.



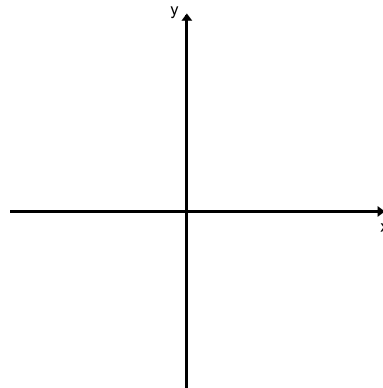
State extreme point (,)	State y intercept (,)
State any other point (,)	State any other point (,)



This is $f(x) = \sqrt{x}$

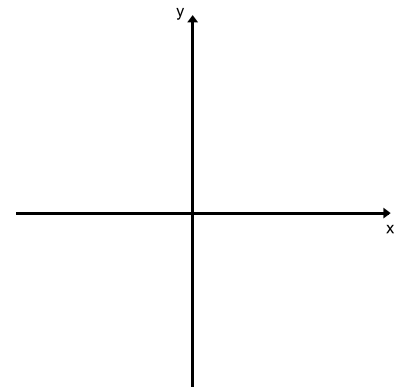
x	-4	-1	0	1	4
f(x)	und	und	0	1	2

Sketch $a(x) = 8\sqrt{x+5}$ and complete the table below.



State extreme point (,)	State y intercept (,)
State any other point (,)	State any other point (,)

Sketch $b(x) = \frac{-2}{5}\sqrt{x-9}$ and complete the table below.



State extreme point (,)	State y intercept (,)
State any other point (,)	State any other point (,)

Name _____ FA Function Transformations ALPHA WITH Graphing Calculator Hour _____

- Write a cubic function that is a vertical reflection _____
- Write a cubic function that is a vertical stretch _____
- Write a cubic function that is a vertical compression _____
- Write a cubic function that shifts its point of inflection to the point (2, -5) _____
- Write a cubic function that shifts its point of inflection to the point (-3, 4) _____
- Write a cubic function that shifts its point of inflection to the point (-4, 0) _____
- Write a cubic function that shifts its point of inflection to the point (0, 6) _____

Name _____ FA Function Transformations BETA WITH Graphing Calculator Hour _____

- Write a cubic function that is a vertical reflection _____
- Write a cubic function that is a vertical stretch _____
- Write a cubic function that is a vertical compression _____
- Write a cubic function that shifts its point of inflection to the point (-5, 2) _____
- Write a cubic function that shifts its point of inflection to the point (7, 0) _____
- Write a cubic function that shifts its point of inflection to the point (8, -3) _____
- Write a cubic function that shifts its point of inflection to the point (0, -9) _____

- Write a square root function that is a vertical shift _____
- Write a square root function that is a horizontal shift _____
- Write a square root function that is a vertical reflection and a horizontal shift _____
- Write a square root function that shifts its extreme point to the point (10, -1) _____
- Write a square root function that shifts its extreme point to the point (-3, 5) _____
- Write a square root function that shifts its extreme point to the point (9, 0) _____
- Write a square root function that shifts its extreme point to the point (0, -8) _____

- Write a square root function that is a vertical shift _____
- Write a square root function that is a horizontal shift _____
- Write a square root function that is a vertical reflection and a horizontal shift _____
- Write a square root function that shifts its extreme point to the point (10, -1) _____
- Write a square root function that shifts its extreme point to the point (-3, 5) _____
- Write a square root function that shifts its extreme point to the point (9, 0) _____
- Write a square root function that shifts its extreme point to the point (0, -8) _____

Name _____ FA Function Transformations DELTA WITH Graphing Calculator Hour _____

- Write a cubic function that is a vertical reflection _____
- Write a cubic function that is a vertical stretch _____
- Write a cubic function that is a vertical compression _____
- Write a cubic function that shifts its point of inflection to the point (4, -3) _____
- Write a cubic function that shifts its point of inflection to the point (-8, 7) _____
- Write a cubic function that shifts its point of inflection to the point (0, 11) _____
- Write a cubic function that shifts its point of inflection to the point (-13, 0) _____

Name _____ FA Function Transformations GAMMA WITH Graphing Calculator Hour _____

- Write a cubic function that is a vertical reflection _____
- Write a cubic function that is a vertical stretch _____
- Write a cubic function that is a vertical compression _____
- Write a cubic function that shifts its point of inflection to the point (4, 17) _____
- Write a cubic function that shifts its point of inflection to the point (-9, 0) _____
- Write a cubic function that shifts its point of inflection to the point (-4, -15) _____
- Write a cubic function that shifts its point of inflection to the point (0, 19) _____

- Write a square root function that is a vertical shift _____
- Write a square root function that is a horizontal shift _____
- Write a square root function that is a vertical reflection and a horizontal shift _____
- Write a square root function that shifts its extreme point to the point (-12, -4) _____
- Write a square root function that shifts its extreme point to the point (4, -23) _____
- Write a square root function that shifts its extreme point to the point (-8, 0) _____
- Write a square root function that shifts its extreme point to the point (0, 17) _____

- Write a square root function that is a vertical shift _____
- Write a square root function that is a horizontal shift _____
- Write a square root function that is a vertical reflection and a horizontal shift _____
- Write a square root function that shifts its extreme point to the point (-16, 10) _____
- Write a square root function that shifts its extreme point to the point (30, -15) _____
- Write a square root function that shifts its extreme point to the point (0, -14) _____
- Write a square root function that shifts its extreme point to the point (16, 0) _____