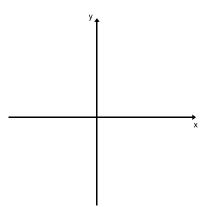
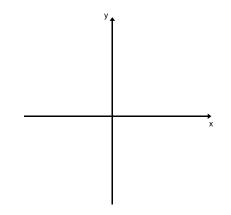


Sketch $a(x) = 2x^3 - 16$ and complete the table below.



Sketch b(x) = $5(x-1)^3 + 2$ and complete the table below.



This is $f(x) = x^3$									
Х	-2	-1	0	1	2				
f(x)	-8	-1	0	1	8				

State point of inflection

State y intercept

State x intercepts

State two additional points

State the transformations on f(x) that a(x) represents

State point of inflection

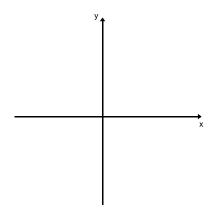
State y intercept

State x intercepts

State two additional points

State the transformations on f(x) that b(x) represents

Sketch $c(x) = -1(x - 8)^3$ and complete the table to the right



State point of inflection

State y intercept

State x intercepts

State two additional points

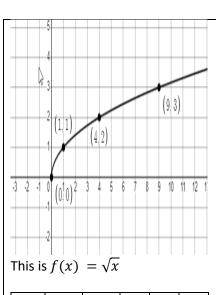
State the transformations on f(x) that c(x) represents

Answer these questions with a(x) b(x) or c(x) as they apply.

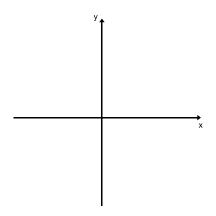
Which of the functions is a vertical compression?

Which of the functions is a vertical reflection?

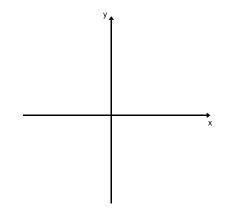
Which of the functions is a vertical stretch?



Sketch $a(x) = 2\sqrt{x} - 4$
and complete the table below.



Sketch b(x) = $\frac{1}{2}\sqrt{x+8} + 6$ and complete the table below.



х	-4	-1	0	1	4
f(x)	und	und	0	1	2

State extreme point	

State y intercept

State x intercepts

State two additional points

State the transformations on f(x) that a(x) represents

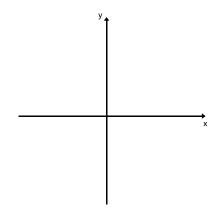
State y intercept

State x intercepts

State two additional points

State the transformations on f(x) that b(x) represents

Sketch $c(x) = 2\sqrt{3-x} + 5$ and complete the table to the right



State extreme point

State y intercept

State x intercepts

State two additional points

State the transformations on f(x) that c(x) represents

Answer these questions with a(x) b(x) or c(x) as they apply.

Which of the functions is a vertical compression?

Which of the functions is a vertical reflection?

Which of the functions is a vertical stretch?

Which of the functions is a horizontal reflection?