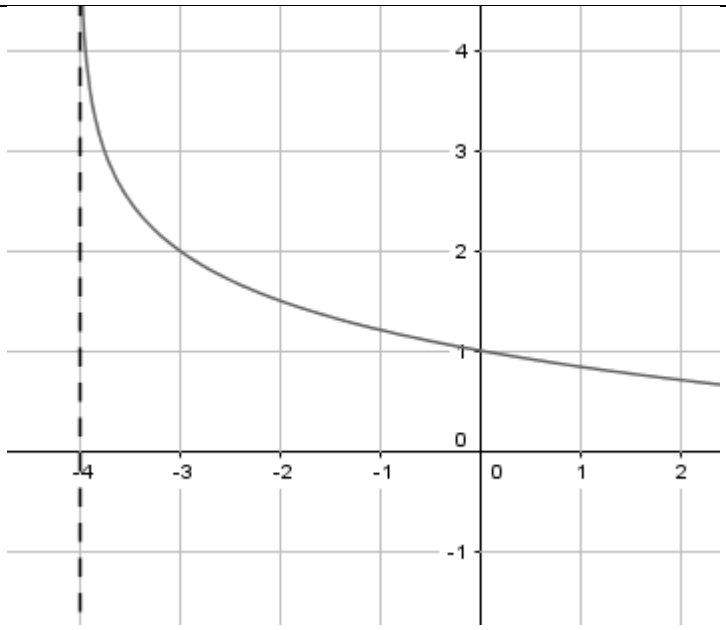
VD unit 3 topic 2 part 2

Graph g(x)

1. describe the transformations between f(x) and its parent function

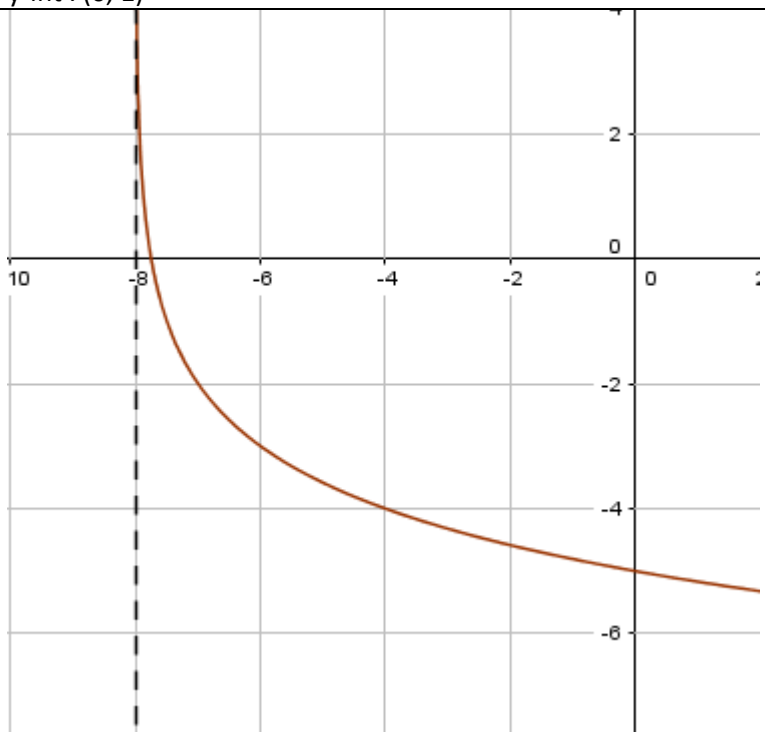
2. find x, y intercepts if possible.

1. $g(x) = 2 + \log_{\frac{1}{4}}(x+4)$



VA : x = -4
x-int : (12, 0)
y-int : (0, 1)

2. $g(x) = -2 + \log_{\frac{1}{2}}(x+8)$



x-int: (-31/4, 0)
y-int: (0, -5)

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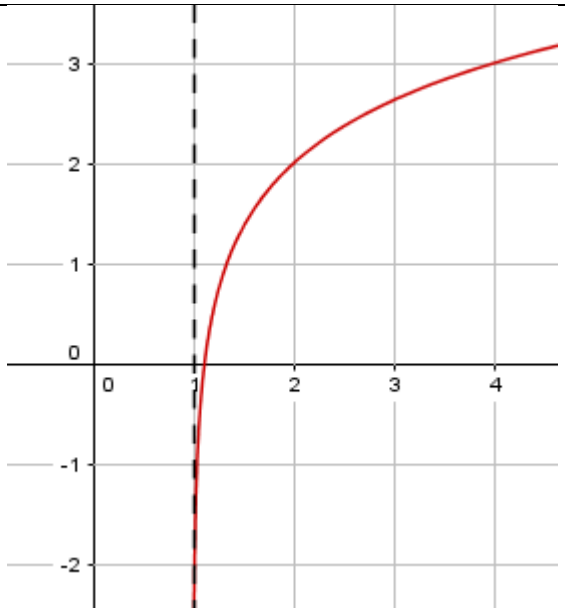
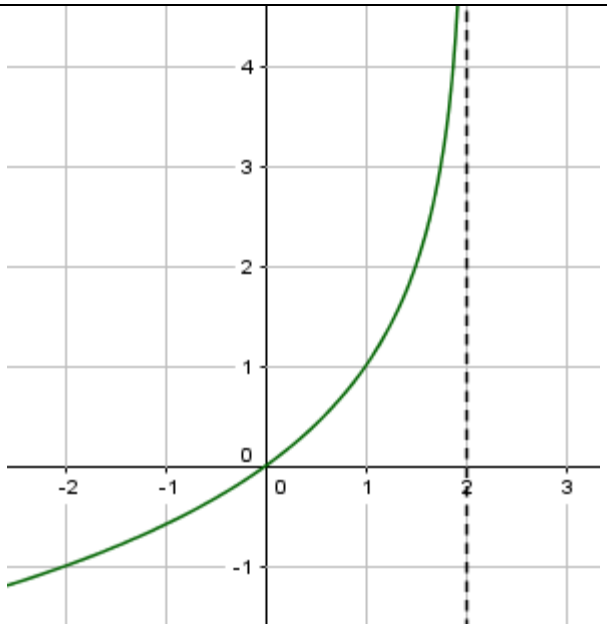
	VA: x = -8
3. $g(x) = 2 + \log_3(x-1)$	 x-int: (10/9, 0) y-int : none VA: x = 1
4. $g(x) = 1 + \log_{\frac{1}{2}}(2-x)$	 x-int : (0, 0) y-int : (0, 0) VA: x = 2

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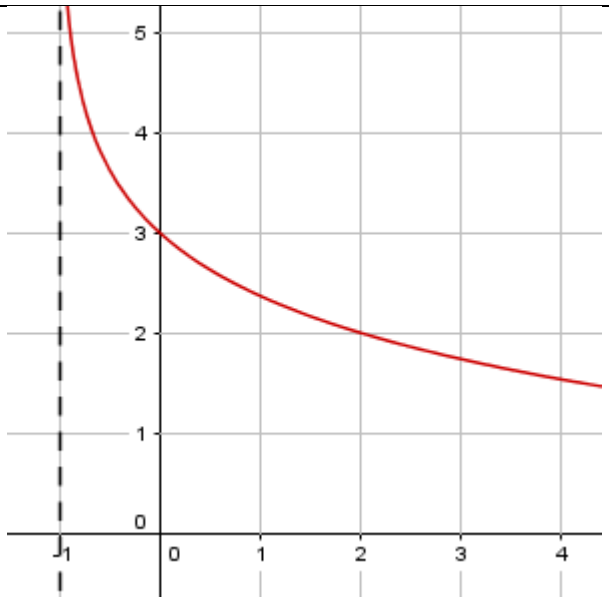
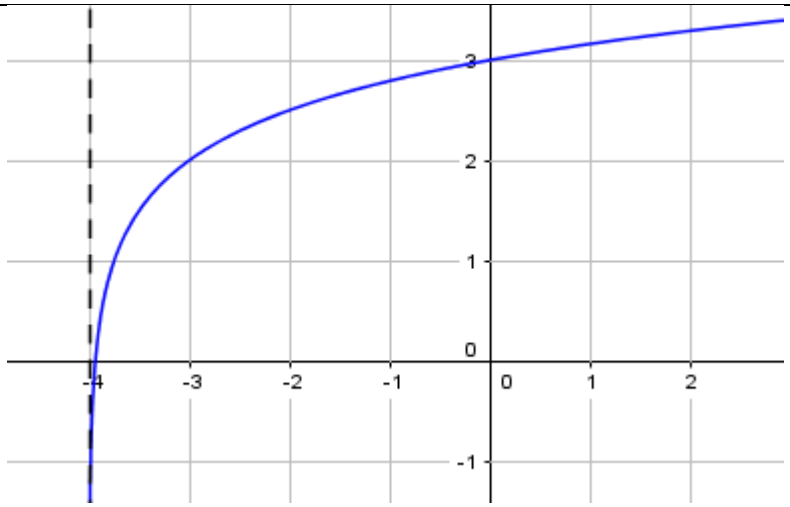
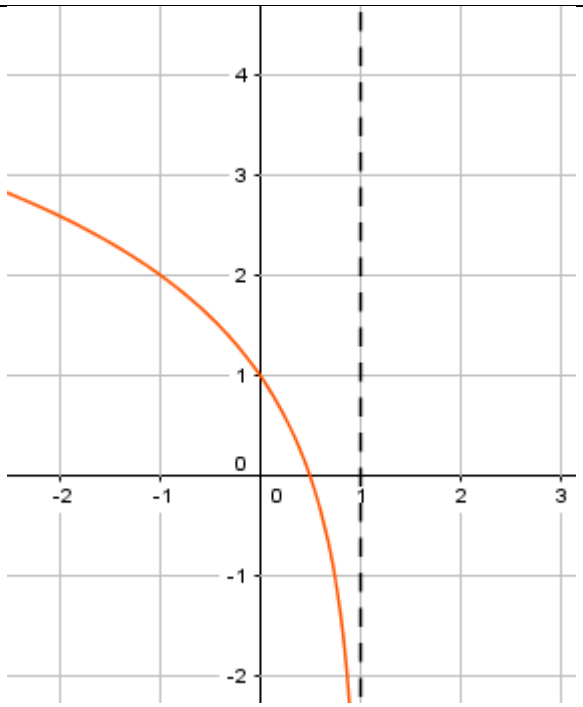
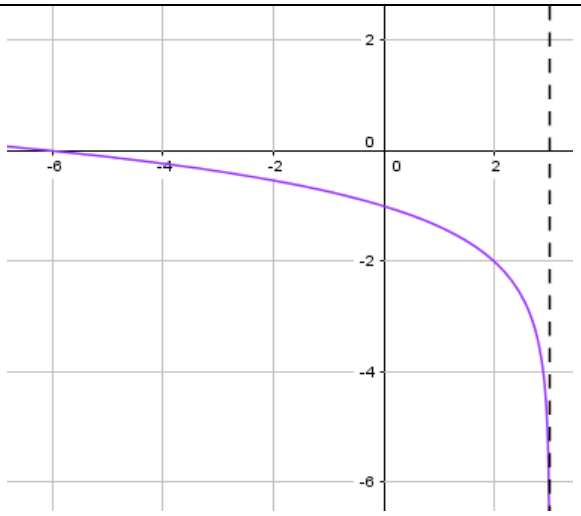
5. $g(x)=3+\log_{\frac{1}{3}}(x+1)$	 x-int: (26,0) y-int: (0, 3) VA: x = -1
6. $g(x)=2+\log_4(x+4)$	 x-int: (-63/16, 0) y-int: (0, 3) HA: x = -4

7. $g(x)=1+\log_2(1-x)$	 x-int: (1/2, 0) y-int: (0, 1) VA: x = 1
8. $g(x)=-2+\log_3(3-x)$	 x-int: (-6, 0) y-int : (0, -1) VA: x = 3