1. Find the domain of the function 

2. Suppose that the graph of is given. Describe how the graph

of the function can be obtained from the graph of .

A. Shift the graph 5 units to the right and 6 units down

B. Shift the graph 5 units to the left and 6 units down

C. Shift the graph 5 units to the left and 6 units up

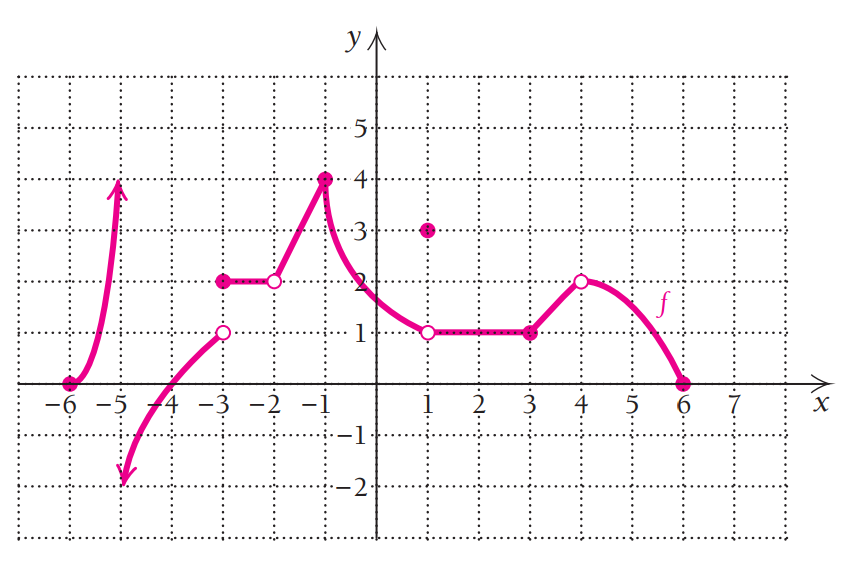
D. Shift the graph 5 units to the right and 6 units up

3. Find

4. For what values of *c* is the function

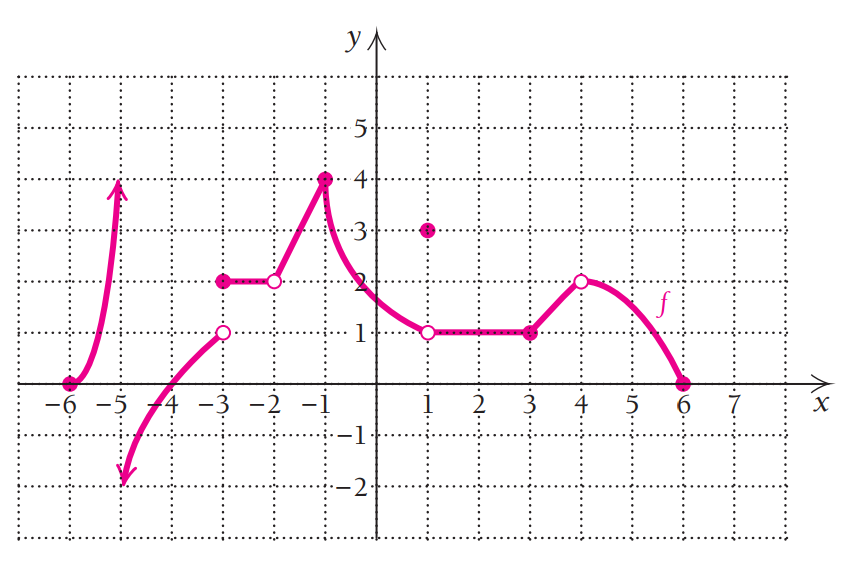
continuous on ?

5. The graph of a fuction f is shown, find:  .



6.

State the numbers at which is not differentiable



7.

A table of values for f,g,f ',g' is given

|  |  |  |  |
| --- | --- | --- | --- |
| *x* | 0 | -1 | 2 |
| *f(x)* | 1 | -2 | -4 |
| *f '(x)* | 2 | -1 | 2 |
| *g(x)* | 1 | 2 | -1 |
| *g'(x)* | -2 | -1 | -2 |

Find h'(2) if h(x)=f(g(x))

8. For. Find

9.

Find by implicit differentiation if

10. Find the linear approximation for at .