Post Video Questions

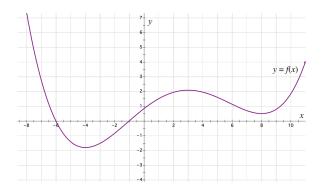
```
nameCheck = function(a,b) {

return a.toLowerCase() != b.toLowerCase();

};
```

Please answer each of these questions to the best of your ability. You are welcome to re-watch parts of any of the videos to help you.

The graph of the function f is shown below.



Problem 1 For this problem, use the graph above.

Learning outcomes: Author(s):

- (a) On the interval [-6, -4], is f'(x):
 - Multiple Choice:
 - (i) < 0
 - (ii) = 0
 - (iii) > 0
 - (iv) more than one of the above
- (c) On the interval [0,2], is f'(x):
 - Multiple Choice:
 - (i) < 0
 - (ii) = 0
 - (iii) > 0
 - (iv) more than one of the above

- (b) On the interval [-4, -2], is f'(x):
- Multiple Choice:
 - (i) < 0
 - (ii) = 0
 - (iii) > 0
 - (iv) more than one of the above
- (d) On the interval [2,4], is f'(x):
 - Multiple Choice:
 - (i) < 0
 - (ii) = 0
 - (iii) > 0
 - (iv) more than one of the above

Problem 2 For this problem, use the graph above.

- (a) On the interval [-6, -4], is f'(x):
 - Multiple Choice:
 - (i) increasing
 - (ii) decreasing
 - (iii) more than one of the above
- (c) On the interval [0,2], is f'(x):
 - Multiple Choice:
 - (i) increasing
 - (ii) decreasing
 - (iii) more than one of the above

- (b) On the interval [-4, -2], is f'(x):
 - Multiple Choice:
 - (i) increasing
 - (ii) decreasing
 - (iii) more than one of the above
- (d) On the interval [2, 4], is f'(x):
 - Multiple Choice:
 - (i) increasing
 - (ii) decreasing
 - (iii) more than one of the above

Problem 3 For how many values of x in the interval [-8, 10] does f'(x) = 0?

Problem 4 From following expressions, identify the smallest and largest according to the numerical value they represent:

Largest:

Smallest:

Multiple Choice:

Multiple Choice:

(a)
$$f'(8)$$

(b)
$$\frac{f(8+\Delta x)-f(8)}{\Delta x}$$
 for $\Delta x > 0$

(b)
$$\frac{f(8+\Delta x)-f(8)}{\Delta x}$$
 for $\Delta x > 0$

(c)
$$f(-6)$$

(c)
$$f(-6)$$

(a) f'(8)

(d)
$$f'(-6)$$

(d)
$$f'(-6)$$