

We are given the following information about a function, f :

$$f(5) = -4, \quad 3 \leq f'(x) \leq 6 \text{ for } 5 \leq x \leq 7$$

Using the racetrack principle explicitly, determine upper and lower bounds for $f(7)$, explaining your calculations.

Given the graph of the function f below, arrange the following quantities in ascending order:

$$f'(-3), f'(-1.5), f'(0), f'(2), (f(1.5) - f(-2.5))/4$$

_____ < _____ < _____ < _____ < _____

