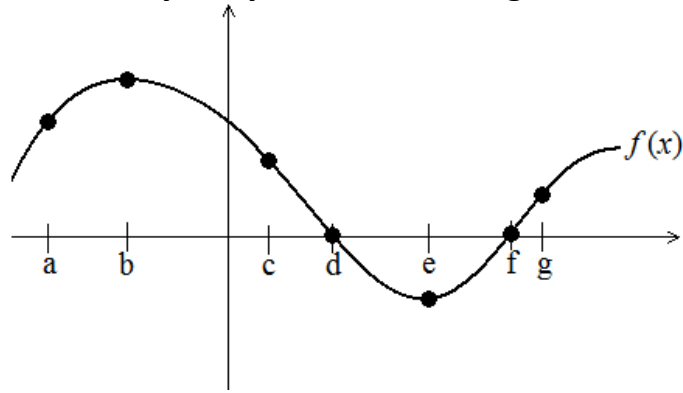


Hey Baby, What's Your Sign?



$f(x)$ has roots at $x = d, f$

$f(x)$ has critical points at $x = b, e$

$f(x)$ has points of inflection at $x = c, g$ only

List each of the following in order from least to greatest. Be prepared to explain your reasoning.

1. $f(d), f(e), f(g)$

2. $f'(c), f'(e), f'(g)$

3. $f''(b), f''(c), f''(f)$

4. $\int_a^d f(x) dx, \int_a^f f(x) dx, \int_g^a f(x) dx$

5. $\int_g^f f(x) dx, \int_f^d f(x) dx, \int_b^f f(x) dx$

6. average value of $f(x)$ on the interval $b \leq x \leq f$, average rate of change of $f(x)$ on the interval $b \leq x \leq f$, instantaneous rate of change at $x = e$