

2. FALSE

It might be, for example,  
that  $f'(c)$  is undefined,  
like for  $f(x) = |x|$   
with an absolute minimum  
when  $c = 0$ .

4. TRUE

Recall that "f is differentiable"  
implies it is also continuous,  
so Rolle's Thm holds.

6. FALSE  $f''(2) = 0$  means  
there may be an  
inflection point, but  
not always.

8. TRUE (But if you require f  
to be differentiable,  
False by MVT.)

10. TRUE ( $f', f'',$  &  $f$  can be chosen)