Prequiz 5

1. TRUE or FALSE: If the second derivative of $f(x)$ is positive, then $f(x)$ is increasing.

2. TRUE or FALSE: If $f'(a) = 3$, then the graph of $y = f(x)$ is increasing through $x = a$.

3. Circle ALL of the statements below that are MEANINGLESS or NON-SENSE.

   (a) The graph is increasing.
   (b) The function is concave down.
   (c) The function is falling.
   (d) The graph is rising.

4. TRUE or FALSE: A point of inflection occurs when $f''(x) = 0$.

5. TRUE or FALSE: If the tangent line at $x = a$ is above the graph of $y = f(x)$, then the graph is concave down at $x = a$. 