5 for 5! The Final Review!

True or False:

- 1) If g(x) is concave up, then using the tangent line at x=3 to approximate g(3.1) will produce an overestimate.
- 2) Selected values of the derivatives of a twice-differentiable function f(x) are shown in the table.

f(x) has a relative minimum at x = 2.

Х	0	1	2	3
f'(x)	5	-1	0	-2
f''(x)	1	3	4	-7

3) If
$$g(x) = \int_3^{x^2} f(t)dt$$
, then $g'(x) = f(x^2)$.

4) If a curve is increasing, then a left Riemann sum gives an overestimate of the area under a curve.

5)
$$\int f'(7-2x)dx = -\frac{1}{2}f(7-2x) + C$$