Let $f(x) = g(x^2 + 1)$, where $g(2) = 3$ and $g(2) = 5$. Compute $f(1)$.

$f'(x) = g'(x^2 + 1) \cdot 2x$

$f''(x) = g''(x^2 + 1) \cdot 2x \cdot 2x + g'(x^2 + 1) \cdot 2$

$f''(1) = g''(2) \cdot 2 \cdot 2 + g'(2) \cdot 2 = 5 \cdot 2 \cdot 2 + 3 \cdot 2 = \boxed{26}$

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