**Name_____ No Calculators. Present neatly. Score_____.**
**(5 minutes)**
1)

Let $F(x) = f(g(x))$, where the graphs of $f$ and $g$ are shown in
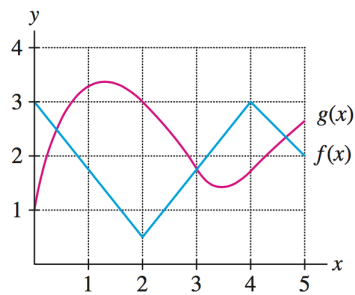Figure 4. Estimate $g'(2)$ and $f'(g(2))$ and compute $F'(2)$.



**FIGURE 4**

Your work:

**Name**_____ **No Calculators. Present neatly. Score**_____.
(5 minutes)

1)

Compute the second derivative of $\sin(g(x))$ at $x = 2$, assuming that $g(2) = \frac{\pi}{4}, g'(2) = 5,$ and $g''(2) = 3.$

Your work: