1) $f(x) = \sin^2(2x+1) \rightarrow$

$\rightarrow f'(x) = 2\sin(2x+1) \cdot \cos(2x+1) \cdot 2$

$= 4\sin(2x+1) \cdot \cos(2x+1)$

$\rightarrow f''(x) = u'v + uv' =$

$= 8\cos^2(2x+1) - 8 \cdot \sin^2(2x+1)$

$= 8(\cos^2(2x+1) - \sin^2(2x+1))$

2) $f(x) = \ln(x^3 + 2\sin(x)) \Rightarrow$

$\rightarrow f'(x) = \frac{1}{x^3 + 2\sin(x)} \cdot 3x^2 + 2\cos(x) =$

$= \frac{3x^2 + 2\cos(x)}{x^3 + 2\sin(x)}$

$f''(x) = \frac{u'v - uv'}{v^2} =$

$= \frac{6x - 2\sin(x)}{x^3 + 2\sin(x)} - \frac{(3x^2 + 2\cos(x))^2}{(x^3 + 2\sin(x))^2}$