1. Consider the function $f(x) = 5 - 4\sin(3x)$. The derivative satisfies
$f'(x) = -4(3)\cos(3x) = -12\cos(3x)$.

2. Consider the function $f(x) = 2\cos(7x) - x^2$. The derivative satisfies
$f'(x) = -2(7)\sin(7x) - 2x = -14\sin(7x) - 2x$.

3. Consider the function $f(x) = 2e^{-6x} + 5\cos(2(x-9)) - 8\sin(4(x-4))$. The derivative satisfies
$f'(x) = -12e^{-6x} - 10\sin(2(x-9)) - 32\cos(4(x-4))$.