45) $\frac{dy}{dx} = 2x - 1$

$\int dy = \int 2x - 1 \, dx$

$y = x^2 - x + C$ $(1, 1)$

$1 = 1 - 1 + C$

$C = 1$

$y = x^2 - x + 1$

51) $f''(x) = 2$

$f'(x) = 2x + C$ $f'(2) = 5$

$5 = 2 \cdot 2 + C$

$5 = 4 + C$

$C = 1$

$f'(x) = 2x + 1$

$f(x) = x^2 + x + C$

$10 = 2^2 + 2 + C$