

$$a) F(x) = \frac{x^3}{3} - \frac{5x^2}{2} + 2x - 13$$

$$f(x) = F'(x) = \left(\frac{x^3}{3} - \frac{5x^2}{2} + 2x - 13 \right)' = x^2 - 5x + 2$$

$$b) F(x) = \frac{1}{x^2} + 5x + \sin x + 2$$

$$f(x) = \left(\frac{1}{x^2} + 5x + \sin x + 2 \right)' = -\frac{2}{x^3} + \cos x + 5.$$