② Find $(f^{-1})'(a)$ for the function -- f and real number a if

$f(x) = x^3 + 2x - 1$ and $a = 2$

* a is x-coord of inverse
* a is y-coord of f

$2 = x^3 + 2x - 1$

$0 = x^3 + 2x - 3$

$x = 1$ (calc)

$f: (1, 2)$

$f^{-1}: (2, 1)$

* Find x-coord of f
* Find derivative of f at x-coord

$$\frac{1}{f'(f^{-1}(a))}$$

$$\frac{1}{f'(f^{-1}(2))}$$

$$\frac{1}{f'(1)}$$

$$\frac{1}{5}$$

$f'(x) = 3x^2 + 2$

$f'(1) = 3 + 2 = 5$