8. $3x^2 - y = -7 + y^3 \quad (1,2)$

① $\frac{d}{dx}(3x^2) + \frac{d}{dx}(-y) = \frac{d}{dx}(-7) + \frac{d}{dx}(y^3)$

$6x - 1 \cdot y' = 0 + 3y^2 y'$

$6x - y' = 3y^2 y'$

$6x = 3y^2 y' + y'$

$6x = y'(3y^2 + 1)$

$\frac{6x}{3y^2+1} = \frac{y'(3y^2+1)}{3y^2+1}$

$\frac{6x}{3y^2+1} = y' \qquad (1,2)$

② $m = \frac{6(1)}{3(2)^2+1}$

$m = \frac{6}{13}$

③ $y = mx + b$

$2 = \frac{6}{13}(1) + b$

$2 = \frac{6}{13} + b$

$2 - \frac{6}{13} = b$

$\frac{20}{13} = b$

④ $y = mx + b$

$y = \frac{6}{13}x + \frac{20}{13}$