14. $f(x) = \frac{1}{\sqrt[3]{x}} - 3x$ at $\overset{x}{(1}, \overset{y}{-2})$

① $f(x) = \frac{1}{x^{\frac{1}{3}}} - 3x$

$f(x) = x^{-\frac{1}{3}} - 3x$

$f'(x) = -\frac{1}{3}x^{-\frac{1}{3}-1} - 3$

$= -\frac{1}{3}x^{-\frac{4}{3}} - 3$

$f'(x) = \frac{-1}{3x^{4/3}} - 3$

② $m = \frac{-1}{3(1)^{4/3}} - 3$

$= \frac{-1}{3} - 3$

$m = -\frac{10}{3}$

③ $y = mx + b$

$-2 = -\frac{10}{3}(1) + b$

$-2 = -\frac{10}{3} + b$

$-2 + \frac{10}{3} = b$

$\frac{4}{3} = b$

④ $y = mx + b$

$y = -\frac{10}{3}x + \frac{4}{3}$