

## แบบฝึกหัด

จงหาผลเฉลยของ DE ต่อไปนี้

1.  $\frac{dy}{dx} = 2 + \sqrt{y - 2x + 3}$

2.  $\frac{dy}{dx} = (x + y + 1)^2 - 2$

3.  $xy' = e^{-xy} - y$

4.  $(9x + 4y + 1)^2 dx - dy = 0$

5.  $\sec^2 x (3 \tan x - 2 \cos y) dx + \tan x \tan y dy = 0$

6.  $\frac{dy}{dx} = 1 + e^{y-x+5}$

7.  $\frac{dy}{dx} = \frac{x + e^y - 1}{e^y}$

8.  $\frac{dy}{dx} = \cos(x - y - 1)$

9.  $y' = \frac{1 - x + y}{5 - x + y}$

10.  $2x^2 y \frac{dy}{dx} = \tan(x^2 y^2) - 2xy^2, \quad y(1) = \pi/2$