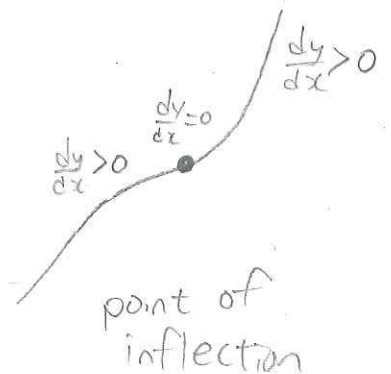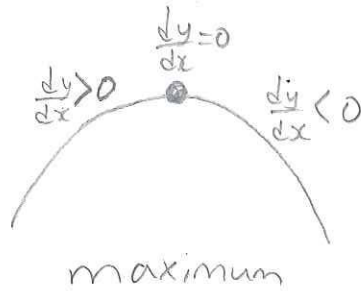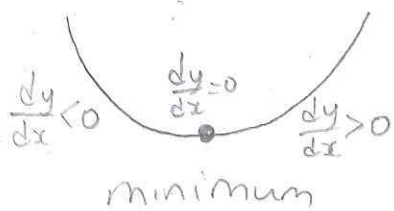# Stationary Points Quiz

For the following functions, identify if there are any stationary points, and if so whether it is a maximum, minimum or point of inflection.

$\frac{dy}{dx} < 0$ $\frac{dy}{dx} = 0$ $\frac{dy}{dx} > 0$
minimum

$\frac{dy}{dx} > 0$ $\frac{dy}{dx} = 0$ $\frac{dy}{dx} < 0$
maximum

$\frac{dy}{dx} > 0$ $\frac{dy}{dx} = 0$ $\frac{dy}{dx} > 0$
point of inflection

① $y = x^2 - 7x + 12$

② $y = x^3 - 12x + 4$