(* Quiz 41 | AP Calculus AB | Area between Two Curves *)
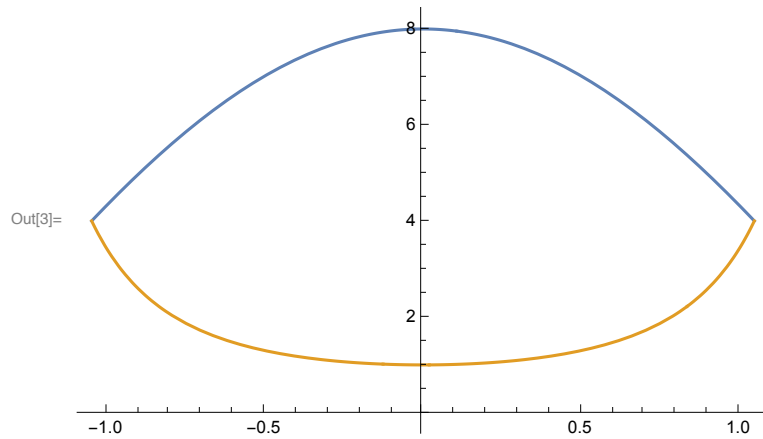
(* Problem 1 *)

In[1]:= **Integrate[(2 y - y^2) - (y^2 - 4 y), {y, 0, 3}]**

Out[1]= 9

(* Problem 2 *)

In[3]:= **Plot[{8 Cos[x], (Sec[x])^2}, {x, -Pi / 3, Pi / 3}]**

Out[3]=

In[4]:= **Integrate[8 Cos[x] - (Sec[x])^2, {x, -Pi / 3, Pi / 3}]**

Out[4]= $6 \sqrt{3}$