[10.6] Given
$$f(x,y) = x^3 - y^3$$
 and $\begin{cases} x = x - y \\ y = xy \end{cases}$

$$50 \int x^2 = x^2 - 2xy + y^2$$

 $2y = 2xy$ Also $(x^3 - y^3) = (x - y)(x^2 + xy + y^2)$

$$\begin{cases} 2y = 2xy + y^2 \\ 2y = 2xy \end{cases}$$

$$X^2 + 2y = x^2 + y^2$$

 $= X \left(x^2 + y^2 + Y \right)$

 $= X (x^2 + 2y + y)$

 $= |X(X^2 + 3Y) = F(X,Y)|$