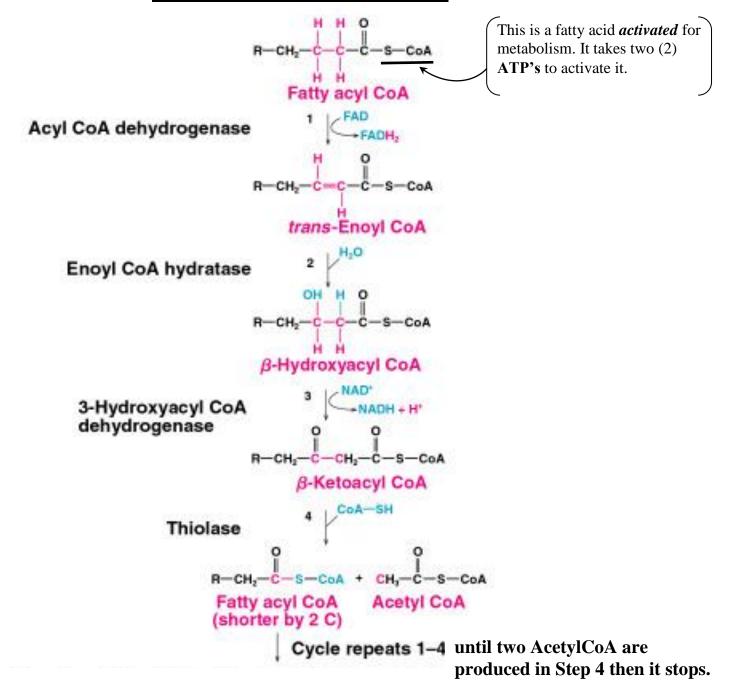
#### **SUMMARY OF β-OXIDATION**



# **Summary of fatty acid metabolism:**

Number of acetylCoA = n/2, where n=# carbon atom in fatty acid Number of cycles = n/2 - 1Each cycle produces 1 FADH<sub>2</sub> and 1 NADH

## **Total ATP produced:**

one acetylCoA = 10 ATP by the citric acid cycle one  $FADH_2 = 1.5$  ATP by the electron transport chain one NADH = 2.5 ATP by the electron transport chain

## **Myristic acid:**

$C_{14}H_{28}O_2$		activation			- 2 ATP
n=14;	n/2 = 7 acetyl CoA		7 x 10 ATP	=	+ 70 ATP
n/2 - 1 = 6	cycles;	6 FADH <sub>2</sub>	6 x 1.5 ATP	=	+ 9 ATP
		6 NADH	6 x 2.5 ATP	=	+ 15 ATP
<u>TOTAL</u>					92 ATP

#### **KETOGENESIS - PRODUCTION OF KETONE BODIES**

