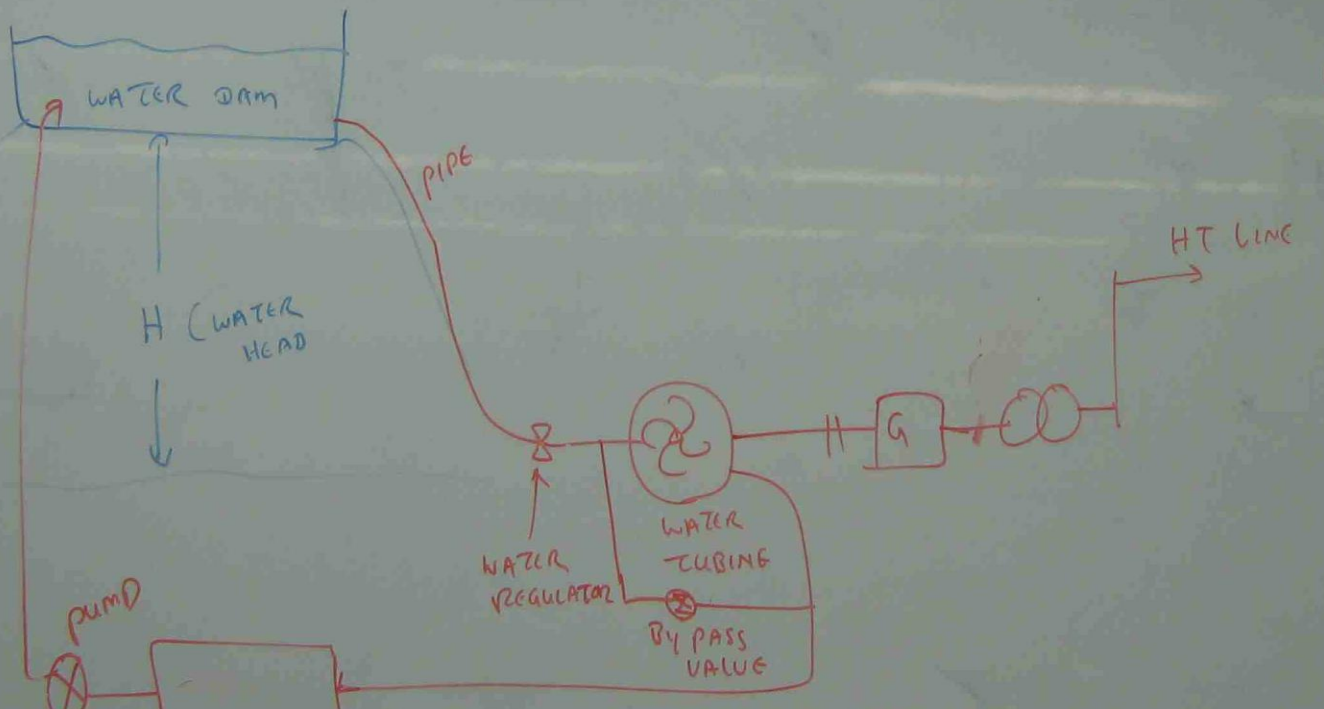
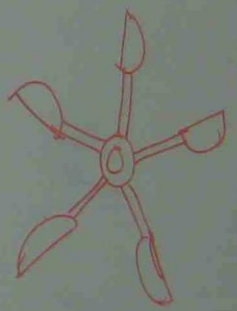
SCHEMATIC DIAGRAM OF HYDRO ELECTRIC POWER SYSTEM



WATER TURBINE

PELTON WHEEL TURBINE



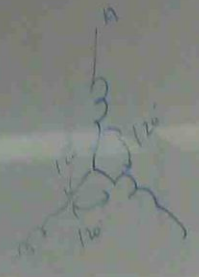
AVAILABLE POWER = 9.8 H Q

(KW)

Q = Flow m^3/sec

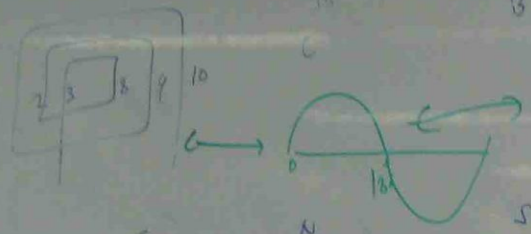
SKETCH THE 3φ WINDING FOR THE FOLLOWING ALTERNATOR STATOR WINDING.

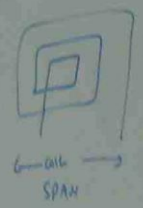
3φ, 4 POLES, 36 SLOTS, 50 HZ



180 ⟶ 9 SLOTS

120 ⟶ ? = $9 \times \frac{120}{180} = 6$





COIL SPAN = $\frac{\text{No. Of SLOTS}}{\text{No. of POLES}}$

$= \frac{36}{4} = 9$

⟶ 10