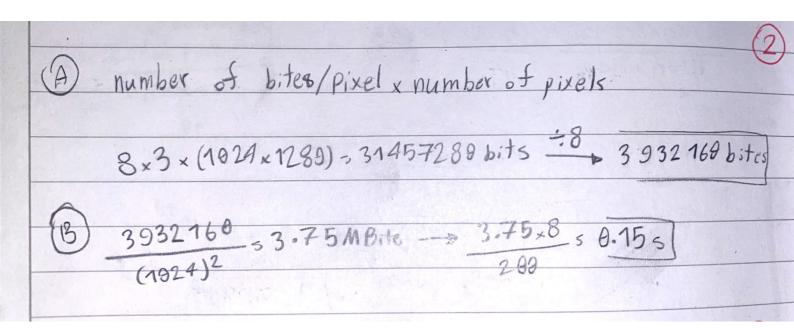
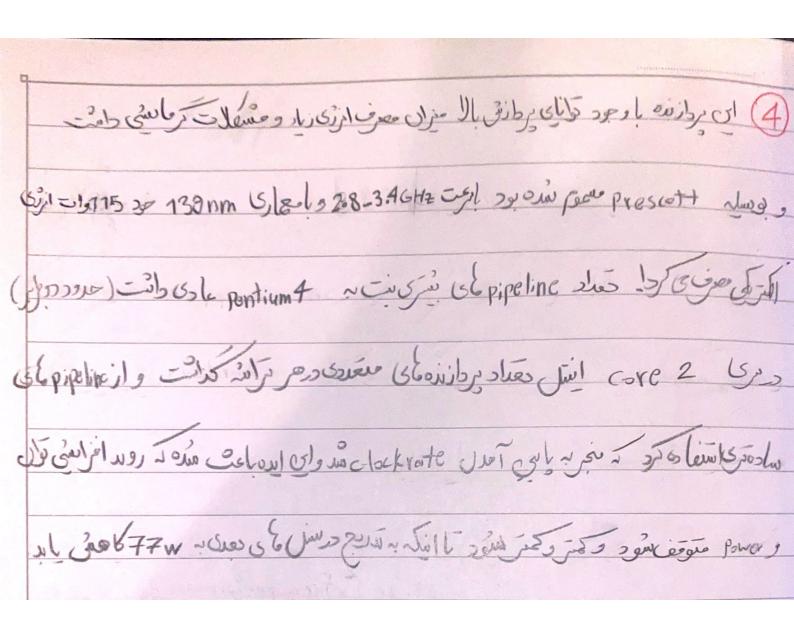
97243898 - Olishi) من من من المنال سطع الاصل براه لى ي نويسم نم افرارى برام كاموالوكلا abele assembly with a chi of or constant نع اقرار وسخت افزارات جون براى اندك برنامه ما اهراه تو بالد تبعل به مك نبال معلم الي مام علمه machine سود مرسون و داست تا بتواند وارد منح اتراد کامیور التور 1 Jose of eline of the aller is the wind of the series of C program C compiler Assembly language assembler machine code Swap (int V[] sint K) { Swaf . 08811...7 19111...8 mul; \$2, \$5,4 int tmp; \$2, \$4,\$2 add tmps V[K]; comiler \$15, 0(\$2) 00011... 1 Iw V[K] · V[k+1]; \$16, 4(\$2) In \$16,0(52) V[x+1]s tmp3 SW 4-5, 4(\$2 5W \$31 YL



1300 × floating point 3  8000 × Arithmetic 1  5000 × Lond/store 4  2000 × Branch 2
A clock cycles = [ (CPI xinstruction count;)  in
= 1999 x3 + 8990 x 1 + 5998 x 4 + 2980 x 2 . 35990
→ CPUT:me = 35999 x CycleTime]
B clock cycles 2 = 1990-3+890921+5900 x4 + 2990 x1 = 33000
→ CPU Time = 33,840× Cycle Time  ΔCPUTime = 2090 cycleTime ×199 = 1.5.7
CPUTime 35990 cycletime,



Power = Capacity × (votage) \* frequency

Voltage = 9.9 Voltagep, captiveload,

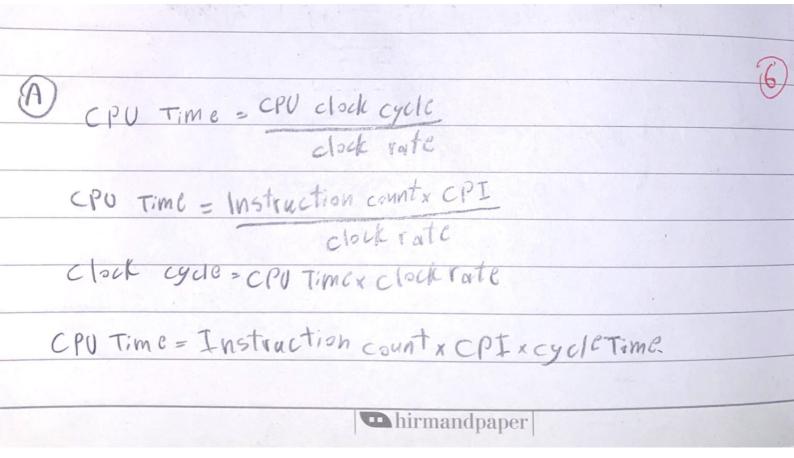
frequency = 1.15 fre quency p

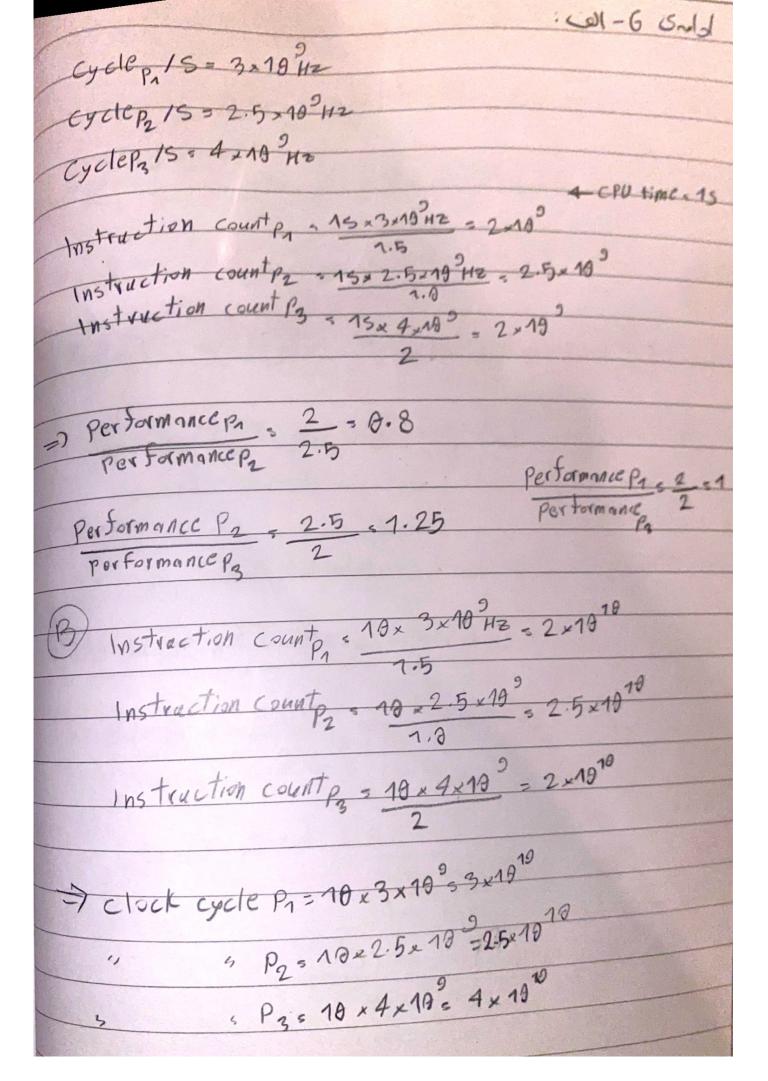
Power pa captiveload pa × (vottagepa Power pa captiveload pa Voltagepa)

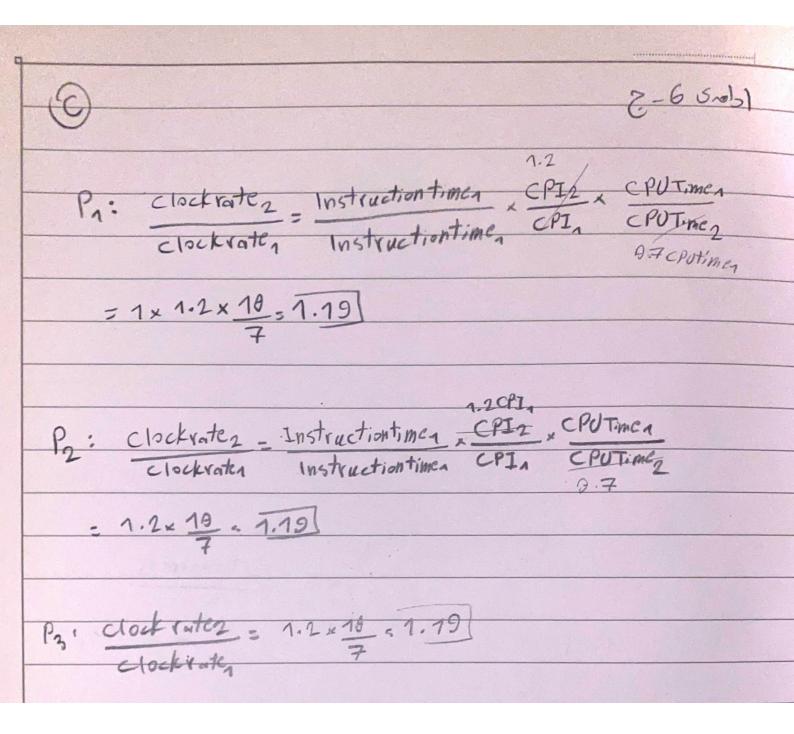
Power pa captiveload pa voltagepa (voltagepa)

Power pa captiveload pa voltagepa)

- 0.85 × (0.9) × 1.15 = 9.79177







B) CPUTime: Instruc countx CPI Clock rate  $P_{1} \cdot 12 \times 10^{+3} = 9$   $A \times 10^{3} \times 2 = 6.66$   $P_{2} \cdot \frac{10 \times 10^{3} \times 2}{3 \times 10^{3}} = 6.66$