Compute the completion time of the instruction Sequences assuming a single adder (2 cycles) & a multiplier (4 cycles). Virtual units and buffering & forwarding are allowed. You need to (1) draw data dependency graph (2) draw time sequence (3) mark data forwarding with arrow in (2)

(a) $SI:TI \leftarrow A+B$ 52: TI ← TI+C S3: T2 ← D*E S4; T2 ← T2*F S5: TI ← TI+T2 S6: T1 ← T1+9 57: TI ← TI+H (b) S1: T1 ← A+B S2 : T2 DXE 23 : 13 - ctd S4 : T4 ← T2 *F S5: T5 ← T1+T3 S6 1 T6 ← T5+T4 S7 1 T7 ← T6+H