Q3.

$$\text{threshold} \leftarrow \Pi\{m1.grade - 3\}$$
$$(\sigma \mid m1.cnum = 'CS240' \wedge m2.cnum = 'CS240'$$
$$\wedge m1.grade > m2.grade)$$
$$(\rho_{m1}(mark) \times \rho_{m2}(mark)))$$

$$\text{students} \leftarrow \Pi\{s.snum, s.sname, s.year\}$$
$$(\sigma(m.cnum = 'CS240' \wedge m.snum = s.snum$$
$$\wedge m.grade >= threshold))$$
$$(\rho_m(mark) \times \rho_s(student)))$$