2)2)a) When energy is transferred in solids via Transverse waves, Like lights, we call the womes optical' waves. Whe wo light can be thought as a wave or stream of photons, rebration in solids can be thought of as parties called phonons. They only have values of energy It w apart from one overther, whom frequency in W.

Acoustri waves are waves that travel logresitudually like sound waves while aptied waves are mass which transversally like light.

2 40 X10 7 × 1.0003 × 10 5