4.0) A 10 mV, to KHz sinusoidal signal is applied to the input of an OP-AMP integrator as shown below for which R=100KQ & C=1 UF. Find output voltage R - 1tet Solno We know, Vout = - Re (V. (t) dt = - Rc vo sinaet dit = - No (- coswt) the = No coscet = 40×10-3× cos (2×1× 5000 ×t) 100×103 × 1×106 × 2×1× 5×163 = 3.16 ×10 6 cos (31416 E) Am)

(27 +12)7