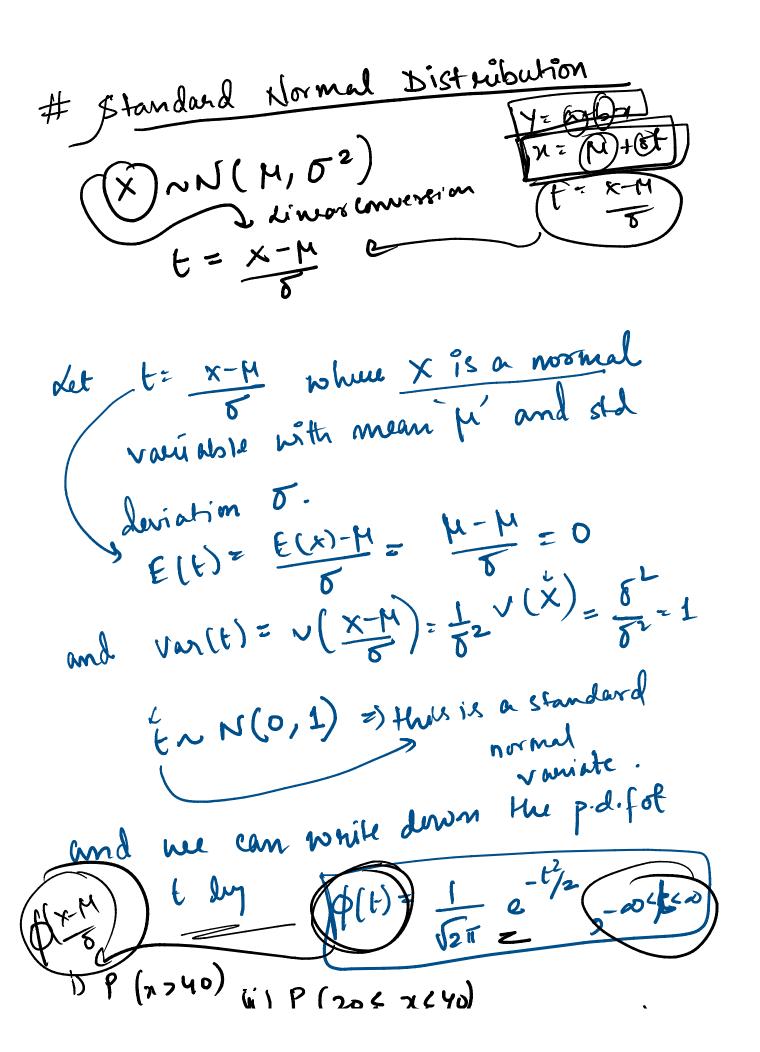
Vaniance of Normat Distail butions: 16 October 2023 08:34 PM for central moments of even order,

= 2 0 2 n 0 7 - 1/2 e 7 de

2 (52-1) =(n-1)(n-1) = 2/627 (28-1) 15/2 3.(27-1) (27-In particular to calculate the variance. we put he 1 Ha= K thatis Hz = 52 / variance



DP (206 x640) niven that PD- wet Co show t den Fes std normal variable 5 2 25 = (5=5·) µ=30 P(x740) = 1- P(X5(7)) where of (K) = P(ESE) (P(x740) = 0-0228. (aux) P(x = 40) - (x = 20) - (12) P (205 x 640) = (1-4(5)) - (1-4(5)) = 2 \$(2)-1 = 2 x0.9 372-1 P(205×540)=P(×540)-P(×520) 0/40-30) - 0/20-30)

$$= \phi \left(\frac{40-30}{5} \right) - \phi \left(\frac{20-30}{5} \right)$$

$$= \phi(2) - \phi(-2)$$

$$= \phi(2) - (1-\phi(2))$$

$$= 2\phi(2) - 1$$

$$= 2x0-9772 - 1$$

$$= 0.3 (44 (am))$$

$$= \frac{1.96}{5} = \frac{1.96}{5} =$$