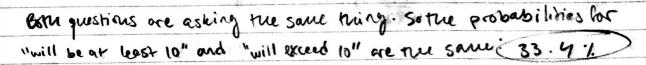
ugad Blade

## C5-556 HWY

33) A~ normal (46.8 km/hr, 1.75 km/hr)

a) 
$$P(A \ge x) = \overline{\Phi}(\frac{x-h}{\sigma}) P(A \le x) = 1 - \overline{\Phi}(\frac{x-h}{\sigma})$$



b) 
$$R(A = 20) = 1 - \frac{1}{2.8} = 3.167 \times 10^{-5} = 0.00031677$$

49) A~ norm (3432,482) a) P(Azx) = 1- (x.) > P(A=4000)=1- \$ (4000-3432) = 1- \$ (1.178)=1-0.8807=0.1193=11.9% P(a = A = b) = \( \P(\frac{b-r}{\sigma}\) - \( \frac{a-r}{\sigma}\) > IP(3000 = A=4000) = \$\overline{\psi(1.178)} - \overline{\psi(-0.8962)} = 0.8807 - 0.1851 \overline{69.67.} > P(A ≤ a ∩ A ≥ b) = \( \P(\frac{a - h}{\sigma} \) + \( 1 - \( \frac{b - h}{\sigma} \) \) 6) => P(A = 2000 A = 9000) = 1 (2000-3432)+ (1- 1- 1- 1- 1-200-3432)) = 0.001484 + (1-0.9994) = 0.002084 = (0.2084.1. c) 7165 = 3175.15g  $P(A \ge 3175.15) = -\overline{P}\left(\frac{3175.15-3432}{482}\right) + 1 = 1-0.2971 = 70.29.1.$ d) 2-score corresponding to 014. 12 -3.09)

Zioner = -3.09 = x-3432 = x= 1942.42) Zupper = 3.09 = 4-3432 = 4=4921.38 If the baby's weight 76 [1942.62,4921.38] then the baby is in the 0.1% the percentile B=aA => P(B=7)=1-0 (7-a(3432) It's the same as port c)