## HANDGUT PRロblem 2a ロct ロaz

GIVEN：A SロLID STEEL SHAFT IS USED TO TRANSMIT 5 HP AT 175 RPM BETWEEN A MロTロR AND A BELT DRIVE．IF THE ALLIWABLE SHEAR STRESS IS 14.5 KSI，DETERMINE THE REQUIRED DIAMETER GF THE SHAFT TQ THE NEAREST $1 / 8 \mathrm{IN}$ ．

## REQUIRED：

## SaLUTIIN：



