

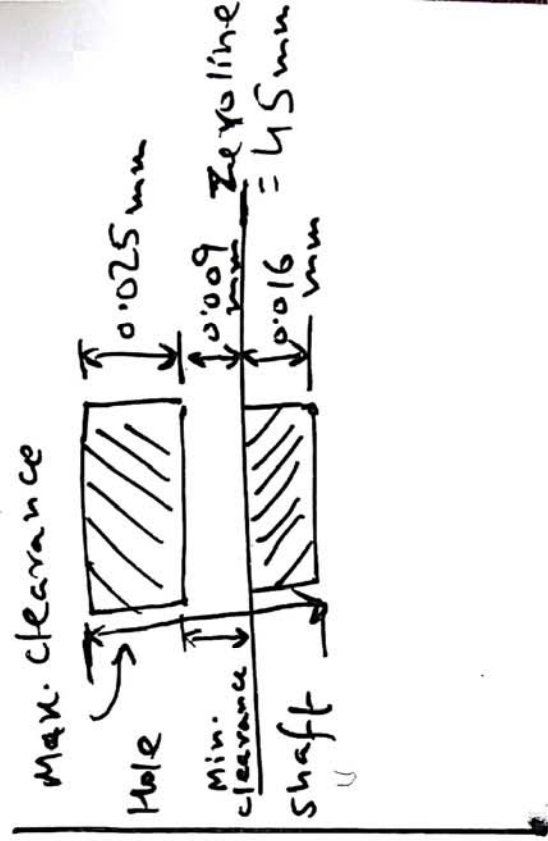
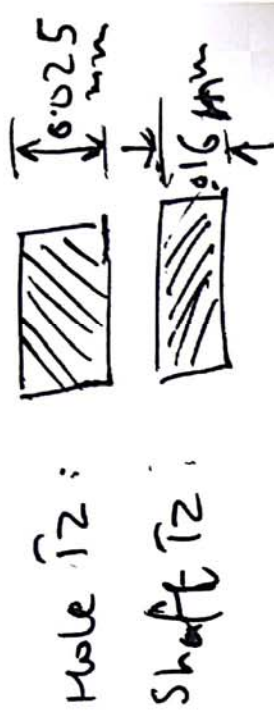
Solution:

45 G7/h6

(i) It is a shaft basis system

(ii)

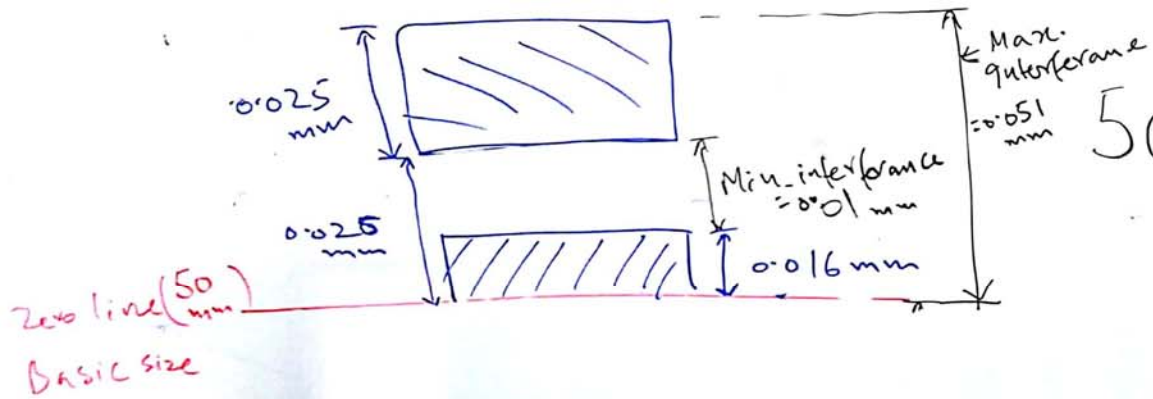
$$\begin{aligned} \text{Min. shaft size} &= 45 - 0.016 \\ &= 44.984 \text{ mm} \\ \text{Max shaft size} &= 45 \text{ mm} \\ \text{Min hole size} &= 45 + 0.009 \\ &= 45.009 \text{ mm} \\ \text{Max hole size} &= 45 + 0.009 \\ &\quad + 0.025 \\ &= 45.034 \text{ mm} \end{aligned}$$



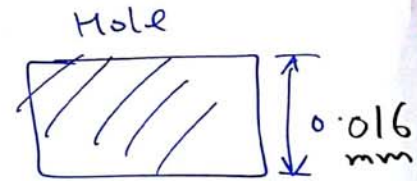
(iii) It is a clearance fit because minimum hole size is larger than maximum shaft size.

$$\begin{aligned} \text{(iv) Min. clearance} &= 0.009 \text{ mm} \\ \text{Max. Clearance} &= 0.025 + 0.009 + 0.016 \\ &= 0.05 \text{ mm} \end{aligned}$$

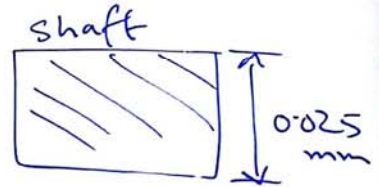
No interference is possible.



50 H 6 / P 7



(i) which fit system it represents



(ii) Find dimensions of hole & shaft

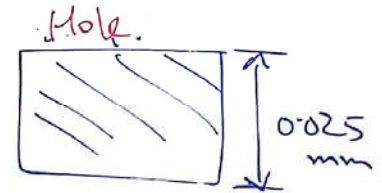
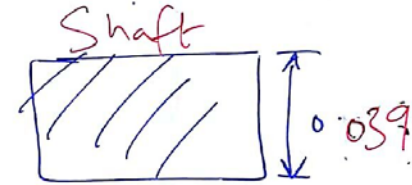
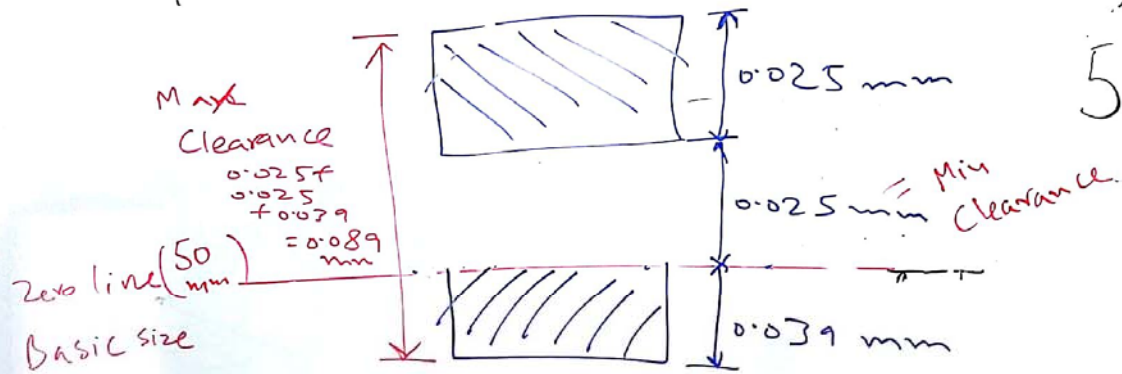
(iii) Find max. & min. clearance and max. & min. interference

(iii) No clearance possible

(i) Hole basis system of fit.

(ii) Min. hole size = 50 mm
 Max. hole size = $50 + 0.016 = 50.016 \text{ mm}$
 Min. shaft size = $50 + 0.026 = 50.026 \text{ mm}$
 Max. shaft size = $50 + 0.026 + 0.025 = 50.051 \text{ mm}$

50 F7/h8



(i) which fit system it represents

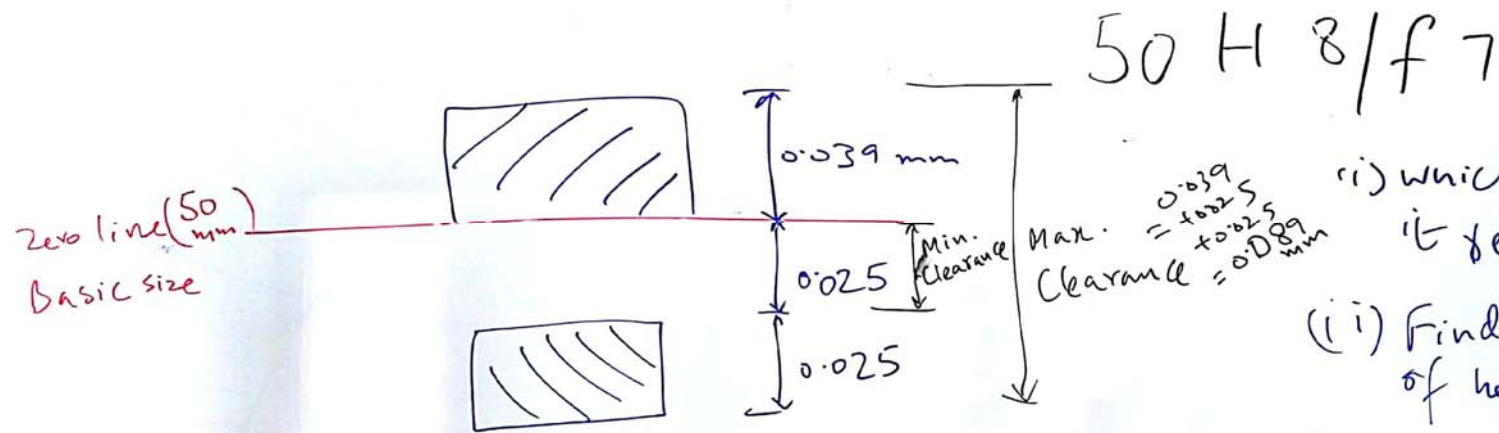
(ii) Find dimensions of hole & shaft

(ii i) Find max & min clearance and max & min interference

(iii) No interference possible

(i) Shaft basis system of fit.

- (ii) Min. hole size = $50 + 0.025 = 50.025$ mm
 Max. hole size = $50 + 0.025 + 0.025 = 50.05$ mm
 Min shaft size = $50 - 0.039 = 49.961$ mm
 Max shaft size = 50 mm



(i) which fit system it represents

(ii) Find dimensions of hole & shaft

(ii i) Find max & min. clearance and max & min interference

(iii) No interference possible

(i) Hole basis system of fit.

- (ii) Min. hole size = 50 mm
 Max. hole size = $50 + 0.039 = 50.039$ mm
 Min shaft size = $50 - 0.025 - 0.025 = 49.950$ mm
 Max shaft size = $50 - 0.025 = 49.975$ mm