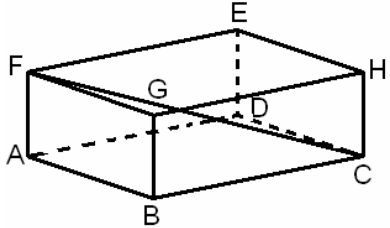
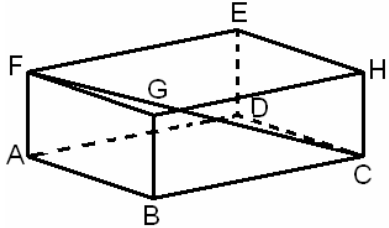


SMK KAMARUL ARIFFIN
MATHEMATICS SPM: LINES AND PLANES IN 3-DIMENSIONS

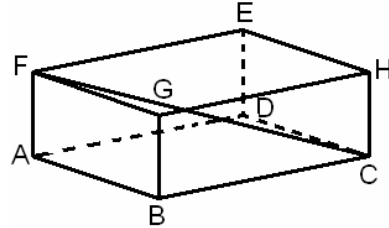
1. Determine the angle between line CF and plane $ABCD$.



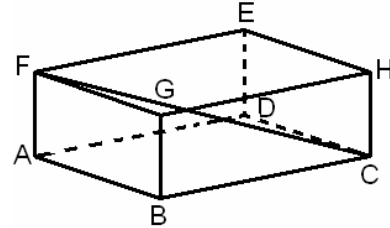
2. Determine the angle between line CF and plane $CDEH$.



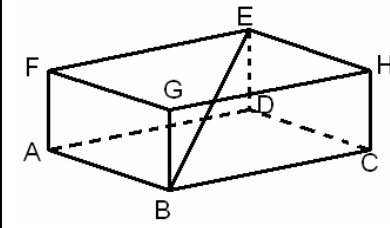
3. Determine the angle between line CF and plane $ABGF$.



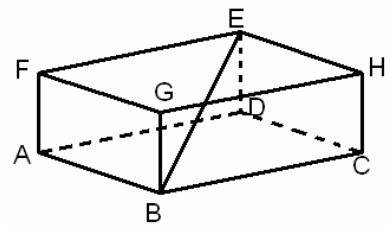
4. Determine the angle between line CF and plane $EFGH$.



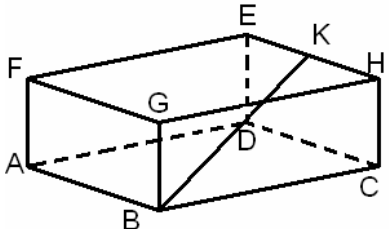
5. Determine the angle between line BE and plane $CDEH$.



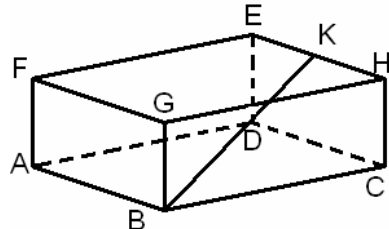
6. Determine the angle between line BE and plane $BCHG$.



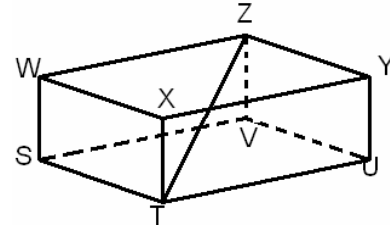
7. Determine the angle between line BK and plane $CDEH$.



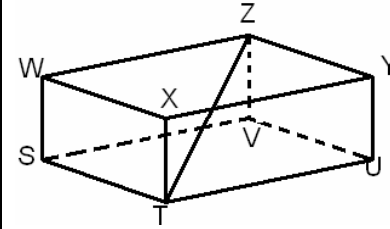
8. Determine the angle between line BK and plane $BCHG$.



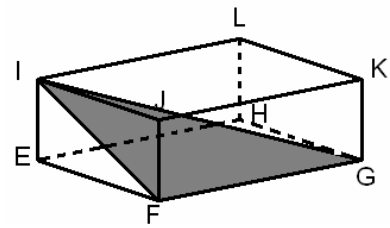
9. Determine the angle between line TF and plane $WXYZ$.



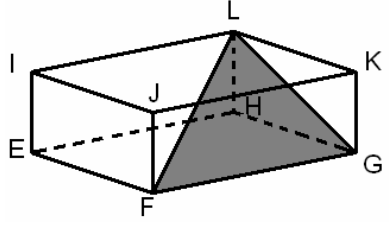
10. Determine the angle between line TZ and plane $SWZV$.



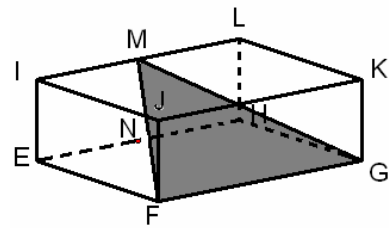
11. Determine the angle between plane FGI and plane $EFGH$.



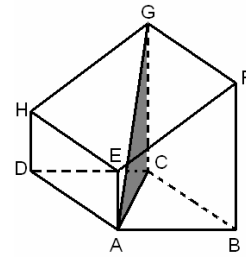
12. Determine the angle between plane FGL and plane $EFGH$.



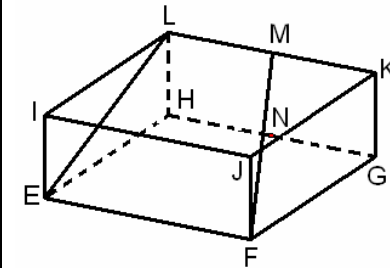
13. Determine the angle between plane FGM and plane $EFGH$.



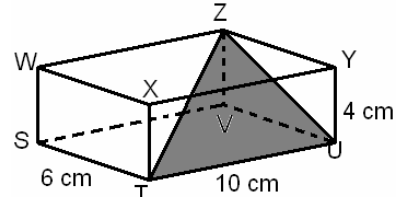
14. Determine the angle between plane ACG and plane $DEGH$.



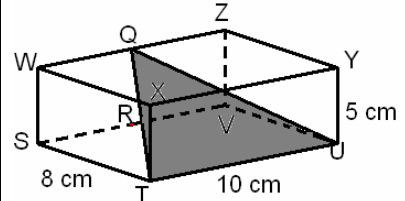
15. Determine the angle between plane $EFML$ and plane $GHLK$.



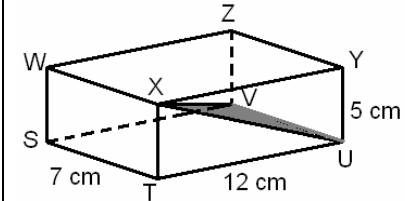
16. Determine the angle between line TUZ and plane $STUV$.



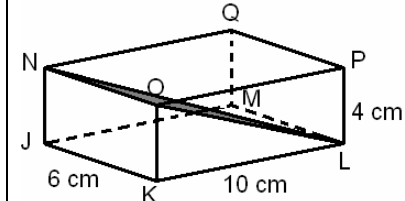
17. Determine the angle between plane TUQ and $STUV$.



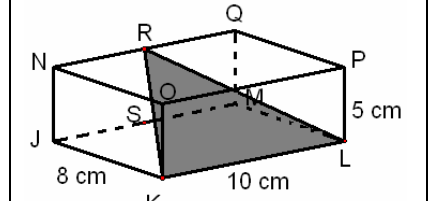
18. Determine the angle between plane UVX and $TUYX$.



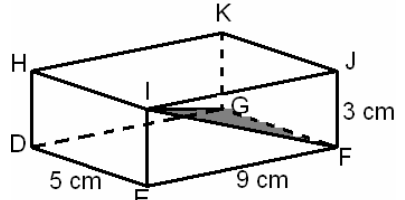
19. Determine the angle between plane NLO and $JKON$.



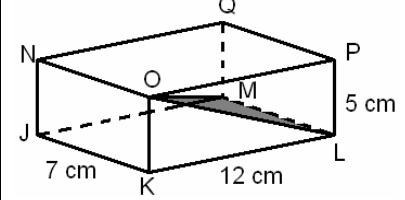
20. Determine the angle between plane KRL and $KLPO$.



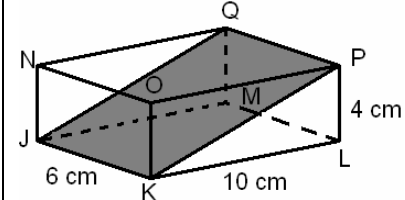
21. Determine the angle between plane FIG and plane $HIJK$.



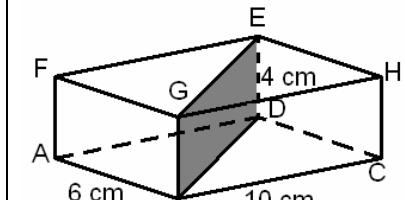
22. Determine the angle between plane MOL and $MLPQ$.



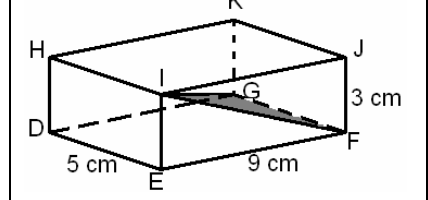
23. Determine the angle between plane $JKPQ$ and $JKLM$.



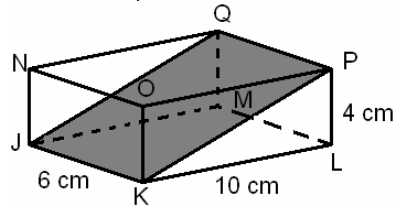
24. Determine the angle between plane $BDEG$ and $CDEH$.



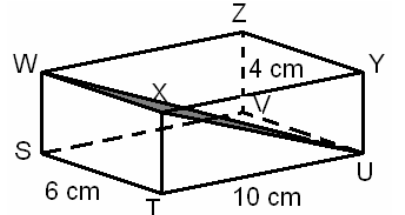
25. Determine the angle between plane FIG and $DEFG$.



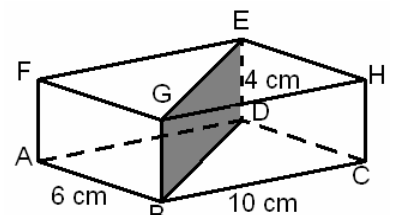
26. Determine the angle between plane $JKPQ$ and plane $MLPQ$.



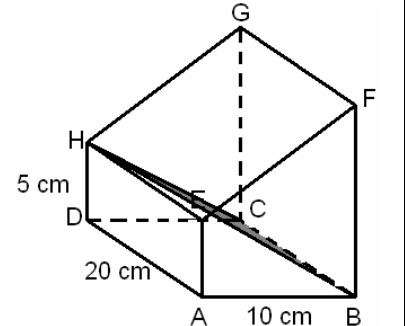
27. Determine the angle between plane WUX and plane $STUV$.



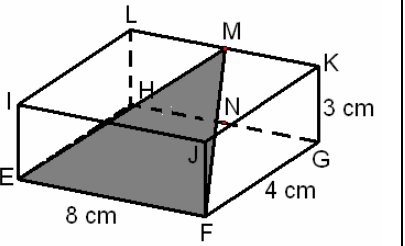
28. Determine the angle between plane $BDHG$ and plane $ADEF$.



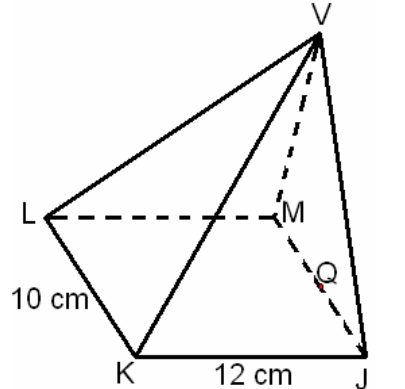
29. Determine the angle between plane CHB and plane $ABCD$.



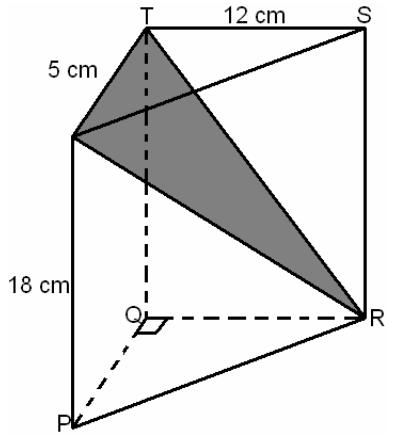
30. Determine the angle between plane EMF and plane $IJKL$.



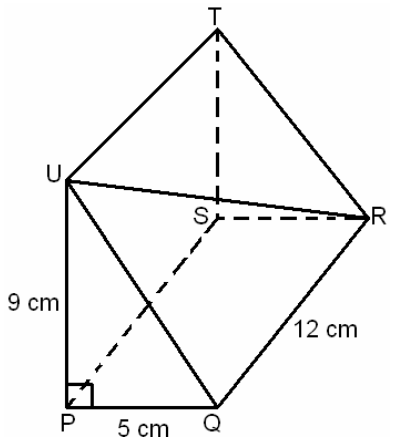
31. V is 8 cm vertically above the point Q which is midpoint of line JM . Calculate the angle between line KV and plane $JKLM$.



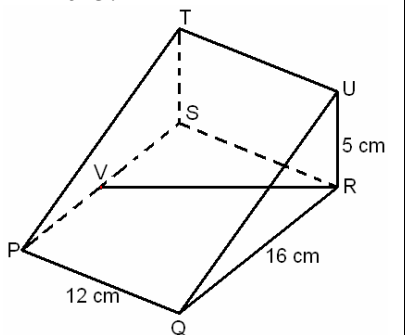
32. Calculate the angle between plane RTU and plane $PQTU$.



33. Identify and calculate the angle between line RU and plane $PQRS$.



34. V is the midpoint of PS . Calculate the angle between line UV and plane $RSTU$.



35. M is the midpoint of the line EH and $AM = 15$ cm. Identify and calculate the angle between line AM and plane $ADEF$.

