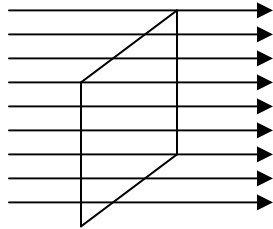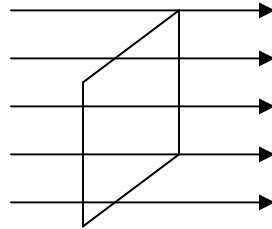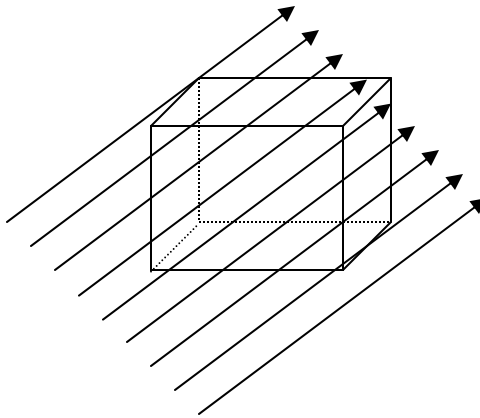# UNIT 4 PRETEST

1) Given: (1) flux is defined as the number of lines passing through a surface and (2) if a line passes through a surface enclosing a volume, it is counted as positive when it enters the volume and negative, when it leaves the volume. Which of the following surfaces has the most flux passing through it? Which of the surfaces has the least flux? Rank the flux through the surfaces.
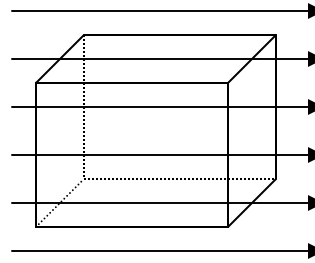
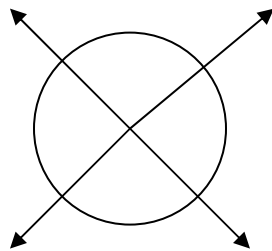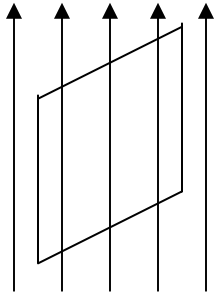flat surface (a)   flat surface (b)

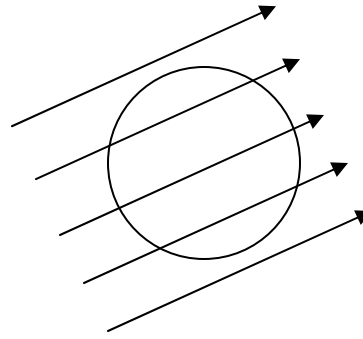surface of a box (c)   surface of a box (d)

surface of a sphere (e)

flat surface (f)   surface of a sphere (g)