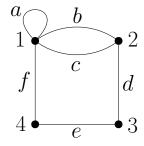
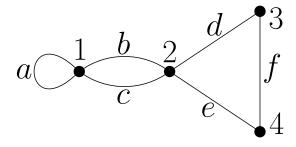
Quiz 8 - MACM 201 - Solutions

[4 pts] Draw the multigraph G = (V, E) where $V = \{1, 2, 3, 4\}$ $E = \{a, b, c, d, e, f\}$ $a \sim 1, b \sim 1, b \sim 2, c \sim 1, c \sim 2, d \sim 2, d \sim 3, e \sim 3, e \sim 4, f \sim 4, f \sim 1.$

Solution.



[4 pts] Describe the multigraph drawn below by stating the vertex set, edge set, and all incidences.



Solution: The drawing depicts a multigraph with vertex set $\{1,2,3,4\}$, edge set $\{a,b,c,d,e,f\}$ and incidences $a \sim 1$, $b \sim 1$, $b \sim 2$, $c \sim 1$, $c \sim 2$, $d \sim 2$, $d \sim 2$, $e \sim 2$, $e \sim 4$, $f \sim 3$, $f \sim 4$.