- 8.16 rev # 8-14 all exer. # 17-33 odd
 rev # (8) Parallel edges are edges that on the same
 Pair of vertices
 - (9) An edge incident on a single vertex is a loop
- (10) A vertex that is not incident on any edge is an isolated vertex.
- (1) A simple graph is a graph with no loops and no parallel edges
- (2) A weighted graph is a graph with numbers assigned to each edge
- (13) Any map with distances between locations can be modeled as a weighted graph. Locations are vertices of the edges are represent rootes between locations with numbers assigned equal to distance
- (14) The length of a path in a weight of its edges.

8.16 exercis 17-33 odd

Biparite
$$V_1 = \{v_1, v_2, v_3\}$$

 $V_2 = \{v_3, v_4\}$

(19) Biparte
$$V_1 = \{ Gre, Bf, Sho, Dou, Mul \}$$

 $V_2 = \{ She, wor, Cas, Gil, Lan \}$

- (21) Not Biparito
- (23) Bi parite

(25)
$$K_{1,1} = 1$$
 $K_{1,2} = 2$ $K_{m,u} = m \cdot n$
 $K_{2,1} = 2$ $K_{2,2} = 4$
 $K_{3,1} = 3$ $K_{3,2} = 6$
 $K_{3,1} = 3$ $K_{3,2} = 6$

- b, Ga, d, e b, Ga, d, e b, 2+4+4+9 = 2×
- 31 Yes

