**Multiagent Systems Assignment 3**

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**Question**

1) Find cores with figures.

Q1: v(1)=v(2)=v(3)=0, v(1,2)=v(2,3)=1, v(1,3)=1, v(1,2,3)=3

Q2: v(1)=v(2)=v(3)=0, v(1,2)=v(2,3)=1, v(1,3)=3, v(1,2,3)=3

Q3: v(1)=v(2)=v(3)=0, v(1,2)=v(2,3)=1, v(1,3)=4, v(1,2,3)=3

Q4: v(1)=v(2)=v(3)=v(1,2)=0, v(2,3)=v(1,3)=v(1,2,3)=1

2) Compute the Shapley values (vector):

v(A) = 6, v(B) = 4, v(C) = 2, v(A, B) = 20, v(A, C) = 15, v(B, C) = 10, v(A, B, C) = 28

**Explanation**

 