

שאלה 4

הקוד:

```
def build_graph(valuations: list[list[int]]):
    graph = nx.DiGraph()
    graph.add_nodes_from([i for i in range(len(valuations))])
    edges_list_lists = [
        [(i, j) for j in [r for r in range(len(valuations[i])) if
valuations[i][r] == max(valuations[i])]] for i in
        range(len(valuations))]
    edges_list = []
    for list in edges_list_lists:
        edges_list += list
    graph.add_edges_from(edges_list)
    return graph
```

דוגמה:

```
plot_graph(build_graph([[10, 1, 10, 5], [3, 50, 2, 3], [6, 10, 3, 10], [10,
10, 10, 10]]))
```

נקבל את הגרף:

