Solutions to Assignment 1
Sports Analytics through Data and Networks
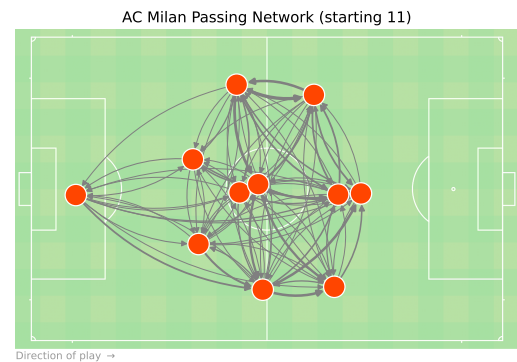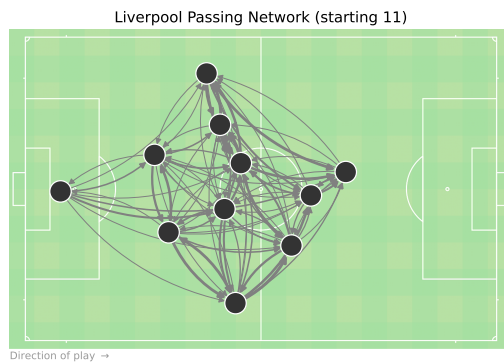# CNET 5442, Spring 2026

ADD YOUR NAME

1. *Question 1.*

   (a) Add! Your! Answer! Here!

   (b) Add! Your! Answer! Here!

   (c) Add! Your! Answer! Here!

   (d) Add! Your! Answer! Here!

2. *Question 2.*

   (a) Add! Your! Answer! Here! and maybe add a visual...?

Sample Data: AC Milan 2 - 1 Liverpool — (May 23, 2007)

Liverpool Passing Network (starting 11)   AC Milan Passing Network (starting 11)

Direction of play →   Direction of play →

   (b) Add! Your! Answer! Here!

   (c) Add! Your! Answer! Here!

   (d) Add! Your! Answer! Here!

3. *Question 3.*

   (a) Add! Your! Answer! Here!

```
# Supplement your written text with code, if you'd like!
import networkx as nx

G = nx.karate_club_graph()
```

```
print("We still want to see your actual code in your github repos,
      but this can be useful for making a point in your answers")
```

    (b) Add! Your! Answer! Here!

    (c) Add! Your! Answer! Here!

    (d) Add! Your! Answer! Here!

4. *Question 4.*

    (a) Add! Your! Answer! Here!

    (b) Add! Your! Answer! Here!

    (c) Add! Your! Answer! Here!

    (d) Add! Your! Answer! Here!

    (e) Add! Your! Answer! Here!

5. *Question 5.*

    (a) Add! Your! Answer! Here!

    (b) Add! Your! Answer! Here!

    (c) Add! Your! Answer! Here!

    (d) Add! Your! Answer! Here!

If you reference anything, add it to the bibliography below and cite it in the text using \cite{Hartle2020_wegd} [1].

[1] Hartle, H., Klein, B., McCabe, S.D., Daniels, A., St-Onge, G., Murphy, C., & Hébert-Dufresne, L. (2020). Network comparison and the within-ensemble graph distance. *Proceedings of the Royal Society A*, 476: 20190744. doi: 10.1098/rspa.2019.0744.