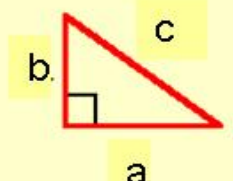


# Student Worksheet 3: Student worksheet for calculating the total distance Eli Manning throws the football

Name: \_\_\_\_\_



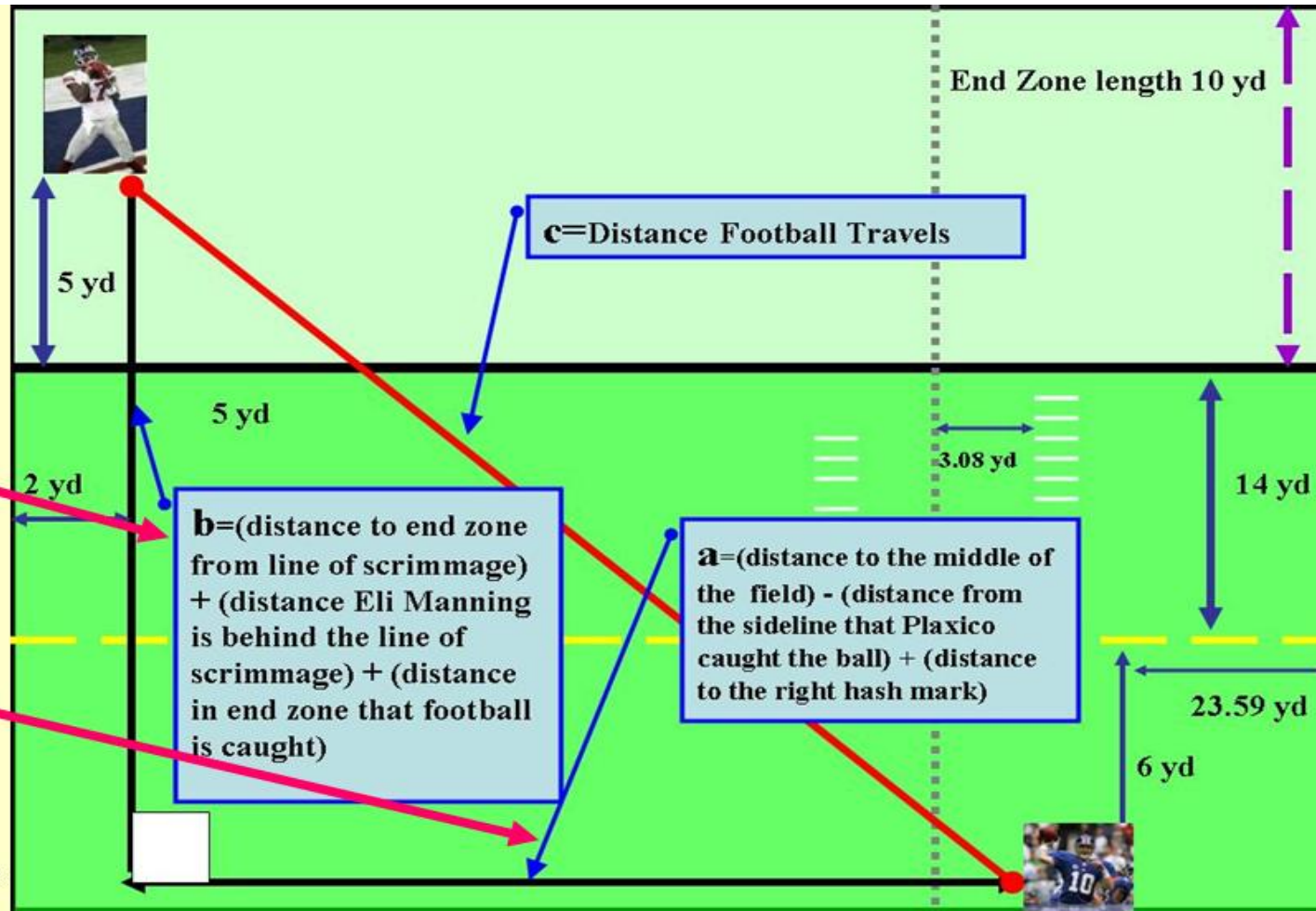
**Pythagorean Theorem**  
 $a^2 + b^2 = c^2$

b = \_\_\_\_\_

a = \_\_\_\_\_

**Find c using the Theorem**

c = \_\_\_\_\_



**c = Distance Football Travels**

**b = (distance to end zone from line of scrimmage) + (distance Eli Manning is behind the line of scrimmage) + (distance in end zone that football is caught)**

**a = (distance to the middle of the field) - (distance from the sideline that Plaxico caught the ball) + (distance to the right hash mark)**

End Zone length 10 yd

5 yd

2 yd

5 yd

3.08 yd

14 yd

23.59 yd

6 yd

**Total Distance Eli Manning Throws the Football = \_\_\_\_\_**