



Player A made an interception at the goal line and is trying to return the ball for a touchdown (100 yards). Players B, C, and D are all chasing him down and trying to tackle him before he gets there. **Important information:** Player B starts from the 30 yard line and 20 yards above Player A. Player C starts from the 10 yard line and 40 yards above Player A. Player D starts at the 20 yard line and 50 yards above Player A.

How long will it take to reach the endzone if...

1.	How far does Player A have to run to reach the endzone?		5.	Player A runs 10 yards/sec.	
2.	How far does Player B have to run to reach the endzone at the same point as Player A?		6.	Player B runs 7 yards/sec.	
3.	How far for Player C?		7.	Player C runs 9 yards/sec.	
4.	How far for Player D?		8.	Player D runs 9.5 yards/sec.	
9.	Will one of the players be able to tackle Player A before he reaches the endzone? If so, who? If more than one will, which player will get there first?				
BONUS	Let's say we wanted to have all four players reach the endzone in exactly 10 seconds. How many yards forward or backward would you need to place Player B to get to the endzone in exactly 10 seconds? Player C? Player D?				