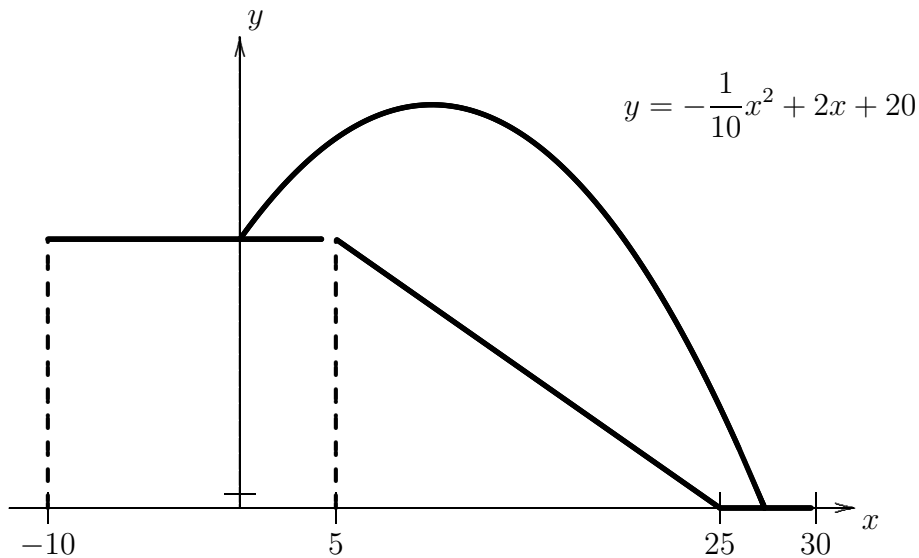


Quiz Two

		Truman	Kelly	Hui
Section	12:30	AB	AD	
(circle one)	1:30	AA	AC	AE

No notes. No calculators.

Simplify your answers. Show your work. Please put a box around YOUR FINAL ANSWER. There are 15 points on this quiz.



Pat kicks a ball down a hill to a soccer field. The path of the ball is shown as a parabola, with equation and coordinate system given above. (Both x and y are measured in feet.)

1 (4 points) Where (in the given coordinates) is the ball highest above the soccer field (the x axis)? (Note: you must find both x and y coordinates.)

2 (3 points) Find the multi-part function that models the ground. (Use a domain of $-10 \leq x \leq 30$.)

3 (4 points) Find the x coordinate where the ball lands.

4 (4 points) Find the x -coordinate where the ball is highest *above the ground*. (You may assume that this happens between $x = 5$ and $x = 25$.)