Lesson 22 Career Trajectories

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A	convenient	model	for	OPS	as	a.	function	of	age	is	a	quadratic	fur	nctio	n

$$OPS = A + B(Age - 30) + C(Age - 30)^{2}$$

What are some good reasons to use the quadratic model?

- Simple, easy-to-interpret
- Models a typical career (player improves initially as he gains experience with major league experience, peaks, and then starts to decline as age reduces eye sight and reflexes)

What are some bad reasons to use the quadratic model?

- No way to model multiple peaks
- Assumes rate of improvement early in the career is the same as the rate of decline late in career

Why do we subtract 30 from Age in the model?

Based on this model, find an expression for the peak age.

Based on this model, find an expression for the peak OPS.

In the quadratic model, explain what C tells us about a player's trajectory.