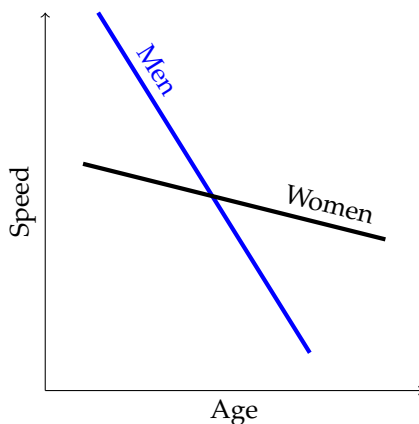


Exer 5.9

[f2007/f2007-125]

The graph shows schematically a hypothesized relationship between how fast a person runs and the person's age and sex.



Consider the model $\text{speed} \sim \text{age} * \text{sex}$

1. What will be the sign of the coefficient on age?

- A Negative
- B Zero
- C Positive
- D No way to tell, even roughly, from the information given

Exer 5.9-1

2. What will be the sign of the coefficient on sex? (Assume that the sex variable is an indicator for women.)

- A Negative
- B Zero
- C Positive

Exer 5.9-2

3. What will be the sign of the interaction coefficient? (Again, assume that the sex variable is an indicator for women.)

- A Negative
- B Zero
- C Positive
- D There is no interaction coefficient.
- E No way to tell, even roughly, from the information given

Exer 5.9-3