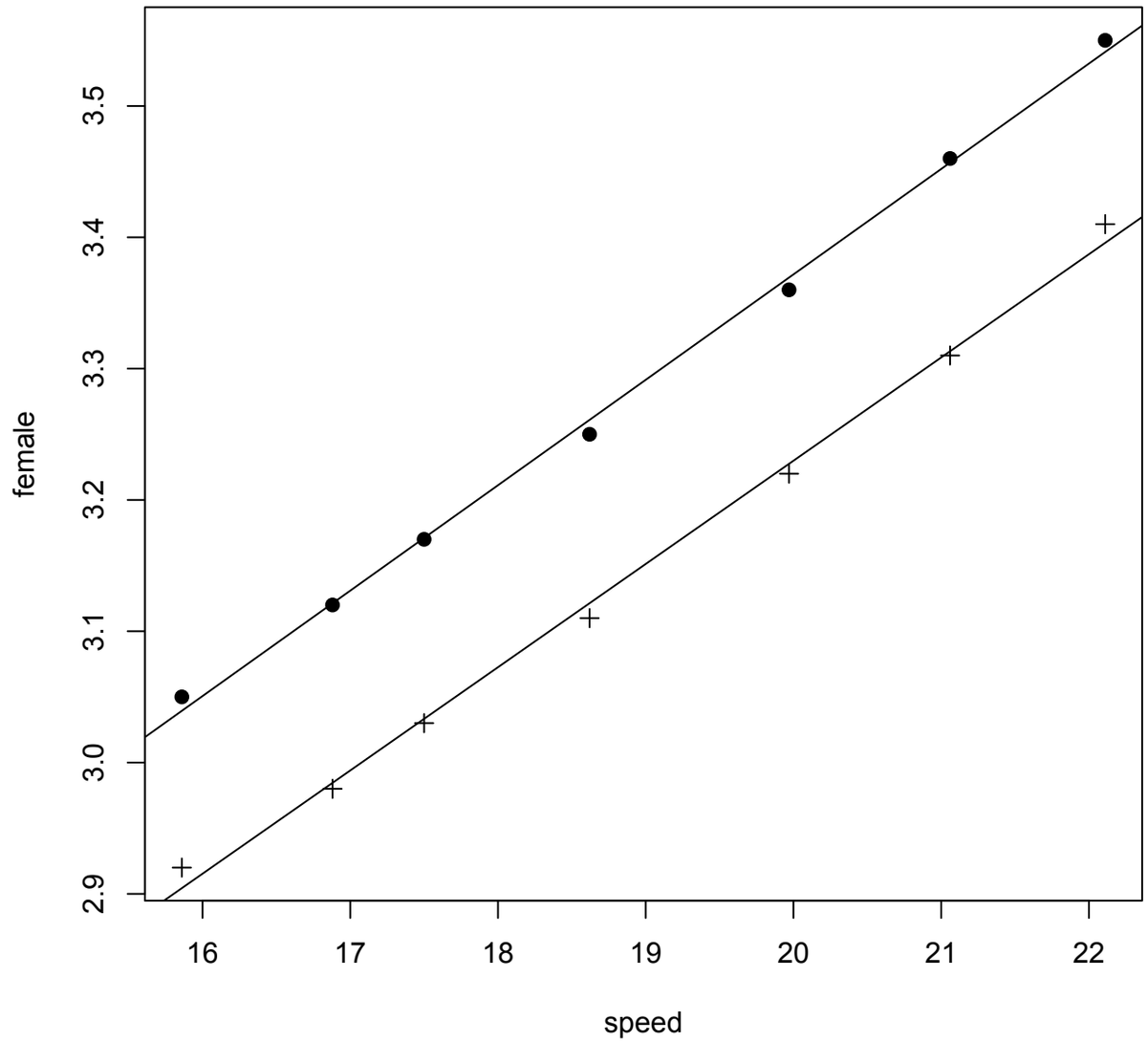
female
3.5
3.4
3.3
3.2
3.1
3.0
2.9
16
17
18
19
20
21
22
speed

$$r = 0.998$$

$$\bar{x} = 18.86$$

$$s_x = 2.290$$

$$\bar{y} = 3.14$$

$$s_y = 0.180$$

In response to the increasing weight of ariline passengers, the FAA told airlines to assume that passengers average 190 pounds in the summer; including clothing and carry on baggage. But passengers vary: the FAA gave a mean but not a standard deviation. A reasonable standard deviation is 35 lbs. Weights are not Normally distributed, especially when the populations includes both mean and women, but they are not very non-Normal. A commuter plane carries 25 passengers. What is the approximate probability that the total weight of the passengers exceeds 5200 pounds?