

243. For 500 claims, you are given the following distribution:

Claim Size	Number of Claims
$[0, 500)$	200
$[500, 1,000)$	110
$[1,000, 2,000)$	x
$[2,000, 5,000)$	y
$[5,000, 10,000)$?
$[10,000, 25,000)$?
$[25,000, \infty)$?

You are also given the following values taken from the ogive:

$$F_{500}(1500) = 0.689$$

$$F_{500}(3500) = 0.839$$

Determine y .

- (A) Less than 65
- (B) At least 65, but less than 70
- (C) At least 70, but less than 75
- (D) At least 75, but less than 80
- (E) At least 80