MA212 End Semester Examination May 2021. Time: 2 pm - 4 pm (Date: 04/05/2021)

Untitled Section

$P[X<0.5]=$___ *

0.5

The marginal density for Y is ___ *

-ln(y)

Are X and Y independent? *

◯ Yes

⦿ No

The marginal density for X is ___ *

1

An engineer is studying early morning traffic patterns at a particular intersection. The observation period begins at 5:30 a.m. Let X denote the time of arrival of the first vehicle from the north-south direction; let Y denote the first arrival time from the east-west direction. Time is measured in fractions of an hour after 5:30 a.m. Assume that the density for (X, Y) is given by

$$f_{XY}(x, y) = 1/x \qquad 0 < y < x < 1$$

P[Y<0.25]=____ *

0.5966

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