

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

* Required

Untitled Section

$P[X < 0.5] = \underline{\hspace{1cm}}$ *

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

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

$P[Y < 0.25] = \underline{\hspace{1cm}}$ *

0.5966

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