

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

* Required

Let X and Y be independent random variables with First moment 3, 10 and Second moment 25, 164 respectively.

Answer the following:

$\text{Var}[3X+Y-8]=$ *

11

$\text{Var}[(Y-10)/8]$ *

- ☒ 1
- ☐ 0
- ☐ 8
- ☐ 101

$E[2X-3Y+7]= *$

- ☐ 17
- ☐ -24
- ☐ 43
- ☒ -17
- ☐ 36

$\text{Var } Y= *$

- ☐ 264
- ☐ -64
- ☐ 164
- ☒ 64

$E[3X+Y-8]= *$

- ☐ 19
- ☐ 3
- ☐ 27
- ☒ 11



$E[(X-3)/4] = *$

- ☐ 6/4
- ☒ 0
- ☐ -6/4
- ☐ 1

$\text{Var}X = *$

- ☐ 34
- ☐ 25
- ☐ 22
- ☐ 28
- ☒ 16

$\text{Var}[2X-3Y+7] = *$

- ☐ 633
- ☐ 647
- ☐ -512
- ☐ 512
- ☒ 640

$\text{S.D. } Y = *$

8



S.D. X= *

4

Back

Next

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