

$$T_{\mathcal{A}} = \left[ \begin{array}{cc} 1 & 0 \\ 0 & 1 \end{array} \right] \in \mathbb{R}^{2 \times 2}$$

$$= \text{null}(V) \cup \text{null}(V^T), \text{ i.e. } \mathcal{N} = \text{null}(V) \cup \text{null}(V^T), \text{ and } \mathcal{N} \perp \mathcal{R}^V$$

$$\begin{aligned} \text{[10, p. 61 and a few pages after]} \quad & \text{[10, p. 61 and a few pages after]} \\ & \text{[10, p. 61 and a few pages after]} \end{aligned}$$

$$= \text{null}(V) \cup \text{null}(V^T), \text{ i.e. } \mathcal{N} = \text{null}(V) \cup \text{null}(V^T), \text{ and } \mathcal{N} \perp \mathcal{R}^V$$

$$\begin{aligned} \text{[10, p. 61 and a few pages after]} \quad & \text{[10, p. 61 and a few pages after]} \\ & \text{[10, p. 61 and a few pages after]} \end{aligned}$$

$$= \text{null}(V) \cup \text{null}(V^T), \text{ i.e. } \mathcal{N} = \text{null}(V) \cup \text{null}(V^T), \text{ and } \mathcal{N} \perp \mathcal{R}^V$$

The first part of the proof is the same as the first part of the proof in the previous paper. The second part is the same as the second part of the proof in the previous paper. The third part is the same as the third part of the proof in the previous paper. The fourth part is the same as the fourth part of the proof in the previous paper. The fifth part is the same as the fifth part of the proof in the previous paper. The sixth part is the same as the sixth part of the proof in the previous paper. The seventh part is the same as the seventh part of the proof in the previous paper. The eighth part is the same as the eighth part of the proof in the previous paper. The ninth part is the same as the ninth part of the proof in the previous paper. The tenth part is the same as the tenth part of the proof in the previous paper.

$$V = \text{null}(V) \cup \text{null}(V^T)$$

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8 **TABLE 1** *Estimated values of  $\beta$  for  $\alpha = 0.05$  and  $\alpha = 0.01$*

	$\beta = 0$	$\beta = 0.1$	$\beta = 0.2$	$\beta = 0.3$
$\alpha = 0.05$	0.0000	0.0000	0.0000	0.0000
$\alpha = 0.01$	0.0000	0.0000	0.0000	0.0000
$\alpha = 0.05$	0.0000	0.0000	0.0000	0.0000
$\alpha = 0.01$	0.0000	0.0000	0.0000	0.0000
$\alpha = 0.05$	0.0000	0.0000	0.0000	0.0000
$\alpha = 0.01$	0.0000	0.0000	0.0000	0.0000
$\alpha = 0.05$	0.0000	0.0000	0.0000	0.0000
$\alpha = 0.01$	0.0000	0.0000	0.0000	0.0000

8 **TABLE 2** *Estimated values of  $\beta$  for  $\alpha = 0.05$  and  $\alpha = 0.01$*

$\alpha = 0.05$	0.0000	0.0000	0.0000	0.0000
$\alpha = 0.01$	0.0000	0.0000	0.0000	0.0000
$\alpha = 0.05$	0.0000	0.0000	0.0000	0.0000
$\alpha = 0.01$	0.0000	0.0000	0.0000	0.0000

8 **TABLE 3** *Estimated values of  $\beta$  for  $\alpha = 0.05$  and  $\alpha = 0.01$*

8 **TABLE 4** *Estimated values of  $\beta$  for  $\alpha = 0.05$  and  $\alpha = 0.01$*

8 **TABLE 5** *Estimated values of  $\beta$  for  $\alpha = 0.05$  and  $\alpha = 0.01$*

8 **TABLE 6** *Estimated values of  $\beta$  for  $\alpha = 0.05$  and  $\alpha = 0.01$*













if  $\neg \text{is\_model}(\text{model})$  then  $\text{is\_model}(\text{model})$

At this point,  $\text{is\_model}(\text{model}) \equiv \text{is\_model}(\text{is\_model}(\text{model}))$  is true for all  $\text{model}$ . The next step is to show that  $\text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model})))$  is true for all  $\text{model}$ . We prove this by showing that  $\text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model})))$  is true for all  $\text{model}$ . We prove this by showing that  $\text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model})))$  is true for all  $\text{model}$ . We prove this by showing that  $\text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model})))$  is true for all  $\text{model}$ .

is\\_model( $\text{is\_model}(\text{is\_model}(\text{model}))$ ) is true for all  $\text{model}$ .

1. Verify that  $\text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model})))$  is true for all  $\text{model}$ .

$$\begin{aligned} \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \\ &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \\ &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \end{aligned}$$

2. Verify that  $\text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model})))$  is true for all  $\text{model}$ .

$$\begin{aligned} \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \\ &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \\ &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \end{aligned}$$

3. Verify that  $\text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model})))$  is true for all  $\text{model}$ .

$$\begin{aligned} \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \\ &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \\ &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \end{aligned}$$

4. Verify that  $\text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model})))$  is true for all  $\text{model}$ .

$$\begin{aligned} \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \\ &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \\ &= \text{is\_model}(\text{is\_model}(\text{is\_model}(\text{model}))) \end{aligned}$$

$$\{ \mathbf{f}_1, \mathbf{f}_2, \dots, \mathbf{f}_N \} = \{ \mathbf{f}_1, \mathbf{f}_2, \dots, \mathbf{f}_N \}.$$

[illegible]

1.  $\frac{1}{2}$  2.  $\frac{1}{3}$  3.  $\frac{1}{4}$  4.  $\frac{1}{5}$  5.  $\frac{1}{6}$  6.  $\frac{1}{7}$  7.  $\frac{1}{8}$  8.  $\frac{1}{9}$  9.  $\frac{1}{10}$  10.  $\frac{1}{11}$  11.  $\frac{1}{12}$  12.  $\frac{1}{13}$  13.  $\frac{1}{14}$  14.  $\frac{1}{15}$  15.  $\frac{1}{16}$  16.  $\frac{1}{17}$  17.  $\frac{1}{18}$  18.  $\frac{1}{19}$  19.  $\frac{1}{20}$  20.  $\frac{1}{21}$  21.  $\frac{1}{22}$  22.  $\frac{1}{23}$  23.  $\frac{1}{24}$  24.  $\frac{1}{25}$  25.  $\frac{1}{26}$  26.  $\frac{1}{27}$  27.  $\frac{1}{28}$  28.  $\frac{1}{29}$  29.  $\frac{1}{30}$  30.  $\frac{1}{31}$  31.  $\frac{1}{32}$  32.  $\frac{1}{33}$  33.  $\frac{1}{34}$  34.  $\frac{1}{35}$  35.  $\frac{1}{36}$  36.  $\frac{1}{37}$  37.  $\frac{1}{38}$  38.  $\frac{1}{39}$  39.  $\frac{1}{40}$  40.  $\frac{1}{41}$  41.  $\frac{1}{42}$  42.  $\frac{1}{43}$  43.  $\frac{1}{44}$  44.  $\frac{1}{45}$  45.  $\frac{1}{46}$  46.  $\frac{1}{47}$  47.  $\frac{1}{48}$  48.  $\frac{1}{49}$  49.  $\frac{1}{50}$  50.  $\frac{1}{51}$  51.  $\frac{1}{52}$  52.  $\frac{1}{53}$  53.  $\frac{1}{54}$  54.  $\frac{1}{55}$  55.  $\frac{1}{56}$  56.  $\frac{1}{57}$  57.  $\frac{1}{58}$  58.  $\frac{1}{59}$  59.  $\frac{1}{60}$  60.  $\frac{1}{61}$  61.  $\frac{1}{62}$  62.  $\frac{1}{63}$  63.  $\frac{1}{64}$  64.  $\frac{1}{65}$  65.  $\frac{1}{66}$  66.  $\frac{1}{67}$  67.  $\frac{1}{68}$  68.  $\frac{1}{69}$  69.  $\frac{1}{70}$  70.  $\frac{1}{71}$  71.  $\frac{1}{72}$  72.  $\frac{1}{73}$  73.  $\frac{1}{74}$  74.  $\frac{1}{75}$  75.  $\frac{1}{76}$  76.  $\frac{1}{77}$  77.  $\frac{1}{78}$  78.  $\frac{1}{79}$  79.  $\frac{1}{80}$  80.  $\frac{1}{81}$  81.  $\frac{1}{82}$  82.  $\frac{1}{83}$  83.  $\frac{1}{84}$  84.  $\frac{1}{85}$  85.  $\frac{1}{86}$  86.  $\frac{1}{87}$  87.  $\frac{1}{88}$  88.  $\frac{1}{89}$  89.  $\frac{1}{90}$  90.  $\frac{1}{91}$  91.  $\frac{1}{92}$  92.  $\frac{1}{93}$  93.  $\frac{1}{94}$  94.  $\frac{1}{95}$  95.  $\frac{1}{96}$  96.  $\frac{1}{97}$  97.  $\frac{1}{98}$  98.  $\frac{1}{99}$  99.  $\frac{1}{100}$  100.  $\frac{1}{101}$  101.  $\frac{1}{102}$  102.  $\frac{1}{103}$  103.  $\frac{1}{104}$  104.  $\frac{1}{105}$  105.  $\frac{1}{106}$  106.  $\frac{1}{107}$  107.  $\frac{1}{108}$  108.  $\frac{1}{109}$  109.  $\frac{1}{110}$  110.  $\frac{1}{111}$  111.  $\frac{1}{112}$  112.  $\frac{1}{113}$  113.  $\frac{1}{114}$  114.  $\frac{1}{115}$  115.  $\frac{1}{116}$  116.  $\frac{1}{117}$  117.  $\frac{1}{118}$  118.  $\frac{1}{119}$  119.  $\frac{1}{120}$  120.  $\frac{1}{121}$  121.  $\frac{1}{122}$  122.  $\frac{1}{123}$  123.  $\frac{1}{124}$  124.  $\frac{1}{125}$  125.  $\frac{1}{126}$  126.  $\frac{1}{127}$  127.  $\frac{1}{128}$  128.  $\frac{1}{129}$  129.  $\frac{1}{130}$  130.  $\frac{1}{131}$  131.  $\frac{1}{132}$  132.  $\frac{1}{133}$  133.  $\frac{1}{134}$  134.  $\frac{1}{135}$  135.  $\frac{1}{136}$  136.  $\frac{1}{137}$  137.  $\frac{1}{138}$  138.  $\frac{1}{139}$  139.  $\frac{1}{140}$  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$\frac{1}{184}$  184.  $\frac{1}{185}$  185.  $\frac{1}{186}$  186.  $\frac{1}{187}$  187.  $\frac{1}{188}$  188.  $\frac{1}{189}$  189.  $\frac{1}{190}$  190.  $\frac{1}{191}$  191.  $\frac{1}{192}$  192.  $\frac{1}{193}$  193.  $\frac{1}{194}$  194.  $\frac{1}{195}$  195.  $\frac{1}{196}$  196.  $\frac{1}{197}$  197.  $\frac{1}{198}$  198.  $\frac{1}{199}$  199.  $\frac{1}{200}$  200.  $\frac{1}{201}$  201.  $\frac{1}{202}$  202.  $\frac{1}{203}$  203.  $\frac{1}{204}$  204.  $\frac{1}{205}$  205.  $\frac{1}{206}$  206.  $\frac{1}{207}$  207.  $\frac{1}{208}$  208.  $\frac{1}{209}$  209.  $\frac{1}{210}$  210.  $\frac{1}{211}$  211.  $\frac{1}{212}$  212.  $\frac{1}{213}$  213.  $\frac{1}{214}$  214.  $\frac{1}{215}$  215.  $\frac{1}{216}$  216.  $\frac{1}{217}$  217.  $\frac{1}{218}$  218.  $\frac{1}{219}$  219.  $\frac{1}{220}$  220.  $\frac{1}{221}$  221.  $\frac{1}{222}$  222.  $\frac{1}{223}$  223.  $\frac{1}{224}$  224.  $\frac{1}{225}$  225.  $\frac{1}{226}$  226.  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and as the defendant's plan was to kill the victim after he had been shot, it was found that the defendant was guilty of murder in the first degree. The jury also found that the defendant was guilty of carrying a dangerous weapon.

[illegible][illegible][illegible]

RECEIVED BY THE DIRECTOR, FBI, 11/11/68 11:51 AM

1. The first part of the report is a general statement of the purpose of the study and the scope of the work. It also includes a brief review of the literature on the subject.

[illegible][illegible]










1. The first part of the report, "Introduction", discusses the importance of the study and the objectives of the research.





### Lemma 3.1

Let  $\alpha \in \mathbb{R}^n$  and

$$A = \begin{pmatrix} a_{11} & a_{12} & a_{13} & a_{14} & a_{15} \\ a_{21} & a_{22} & a_{23} & a_{24} & a_{25} \end{pmatrix} \in \mathbb{R}^{2 \times 5}$$

Let  $\alpha = (\alpha_1, \alpha_2, \alpha_3, \alpha_4, \alpha_5) \in \mathbb{R}^5$  and let  $\beta = (\beta_1, \beta_2, \beta_3, \beta_4, \beta_5) \in \mathbb{R}^5$  be such that  $\alpha \cdot \beta = 0$ . Then

Let  $\alpha = (\alpha_1, \alpha_2, \alpha_3, \alpha_4, \alpha_5) \in \mathbb{R}^5$  and let  $\beta = (\beta_1, \beta_2, \beta_3, \beta_4, \beta_5) \in \mathbb{R}^5$  be such that  $\alpha \cdot \beta = 0$ . Then

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Let  $\alpha = (\alpha_1, \alpha_2, \alpha_3, \alpha_4, \alpha_5) \in \mathbb{R}^5$  and let  $\beta = (\beta_1, \beta_2, \beta_3, \beta_4, \beta_5) \in \mathbb{R}^5$  be such that  $\alpha \cdot \beta = 0$ . Then

Let  $\alpha = (\alpha_1, \alpha_2, \alpha_3, \alpha_4, \alpha_5) \in \mathbb{R}^5$  and let  $\beta = (\beta_1, \beta_2, \beta_3, \beta_4, \beta_5) \in \mathbb{R}^5$  be such that  $\alpha \cdot \beta = 0$ . Then

Let  $\alpha = (\alpha_1, \alpha_2, \alpha_3, \alpha_4, \alpha_5) \in \mathbb{R}^5$  and let  $\beta = (\beta_1, \beta_2, \beta_3, \beta_4, \beta_5) \in \mathbb{R}^5$  be such that  $\alpha \cdot \beta = 0$ . Then

Let  $\alpha = (\alpha_1, \alpha_2, \alpha_3, \alpha_4, \alpha_5) \in \mathbb{R}^5$  and let  $\beta = (\beta_1, \beta_2, \beta_3, \beta_4, \beta_5) \in \mathbb{R}^5$  be such that  $\alpha \cdot \beta = 0$ . Then

Proof. Let  $\alpha \in \mathbb{R}^n$  and

Let  $\alpha = (\alpha_1, \alpha_2, \alpha_3, \alpha_4, \alpha_5) \in \mathbb{R}^5$  and let  $\beta = (\beta_1, \beta_2, \beta_3, \beta_4, \beta_5) \in \mathbb{R}^5$  be such that  $\alpha \cdot \beta = 0$ . Then

