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مركز الدراسات الاشتراكية



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# طريق الاشتراكيين إلى التغيير

رؤية اشتراكية نضالية لتغيير مصر



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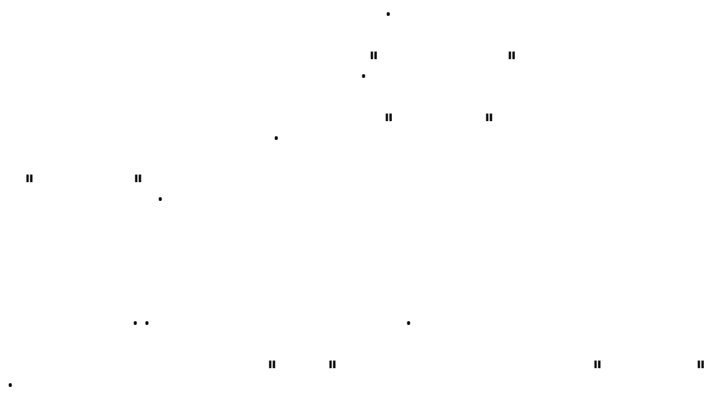
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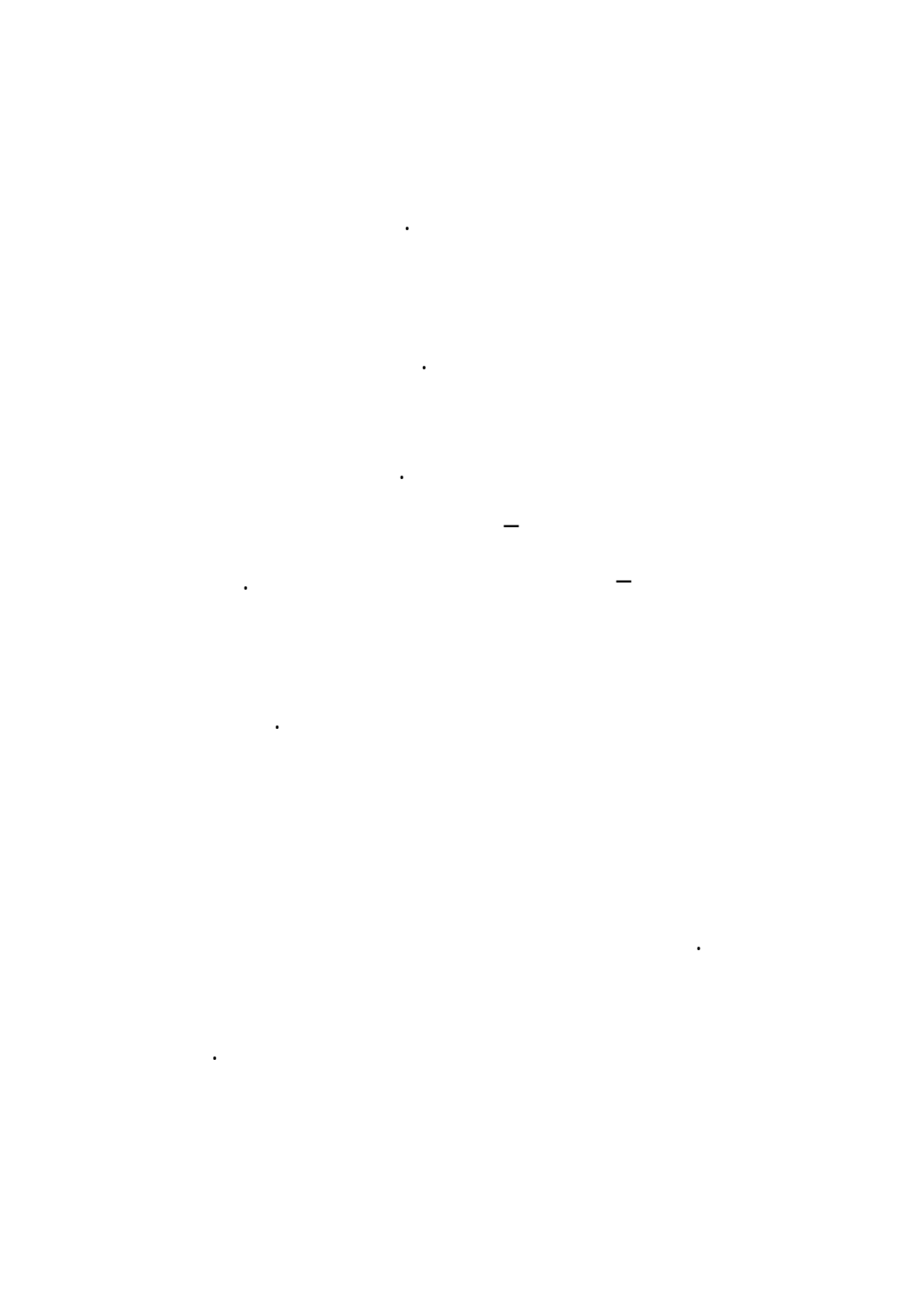
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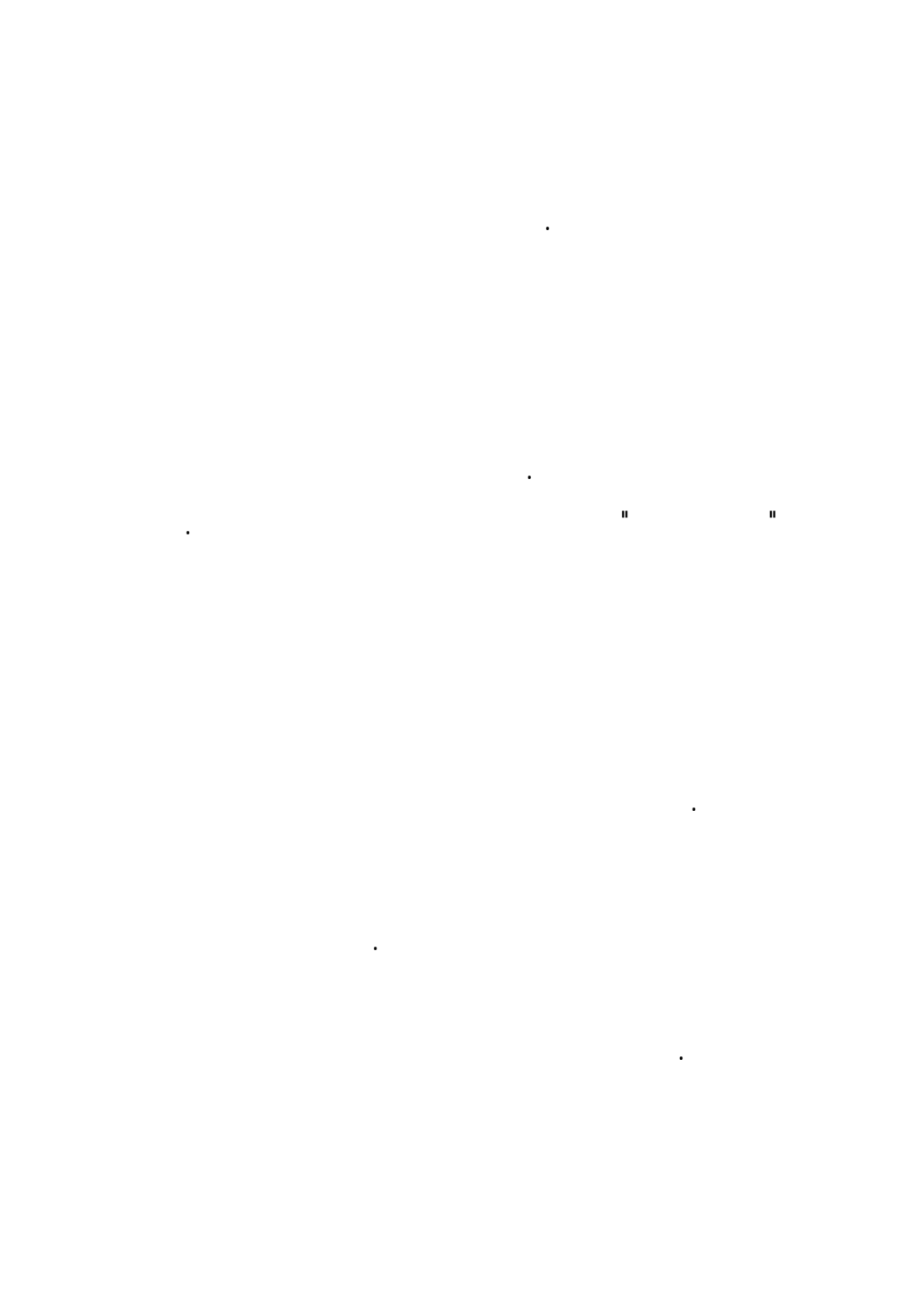
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Because the circle is tangent to the horizontal line at the center of the diameter, the radius is perpendicular to the tangent line. This is a general property of circles: a radius is perpendicular to the tangent line at the point of contact.



Because the circle is tangent to the horizontal line at the center of the diameter, the radius is perpendicular to the tangent line. This is a general property of circles: a radius is perpendicular to the tangent line at the point of contact.





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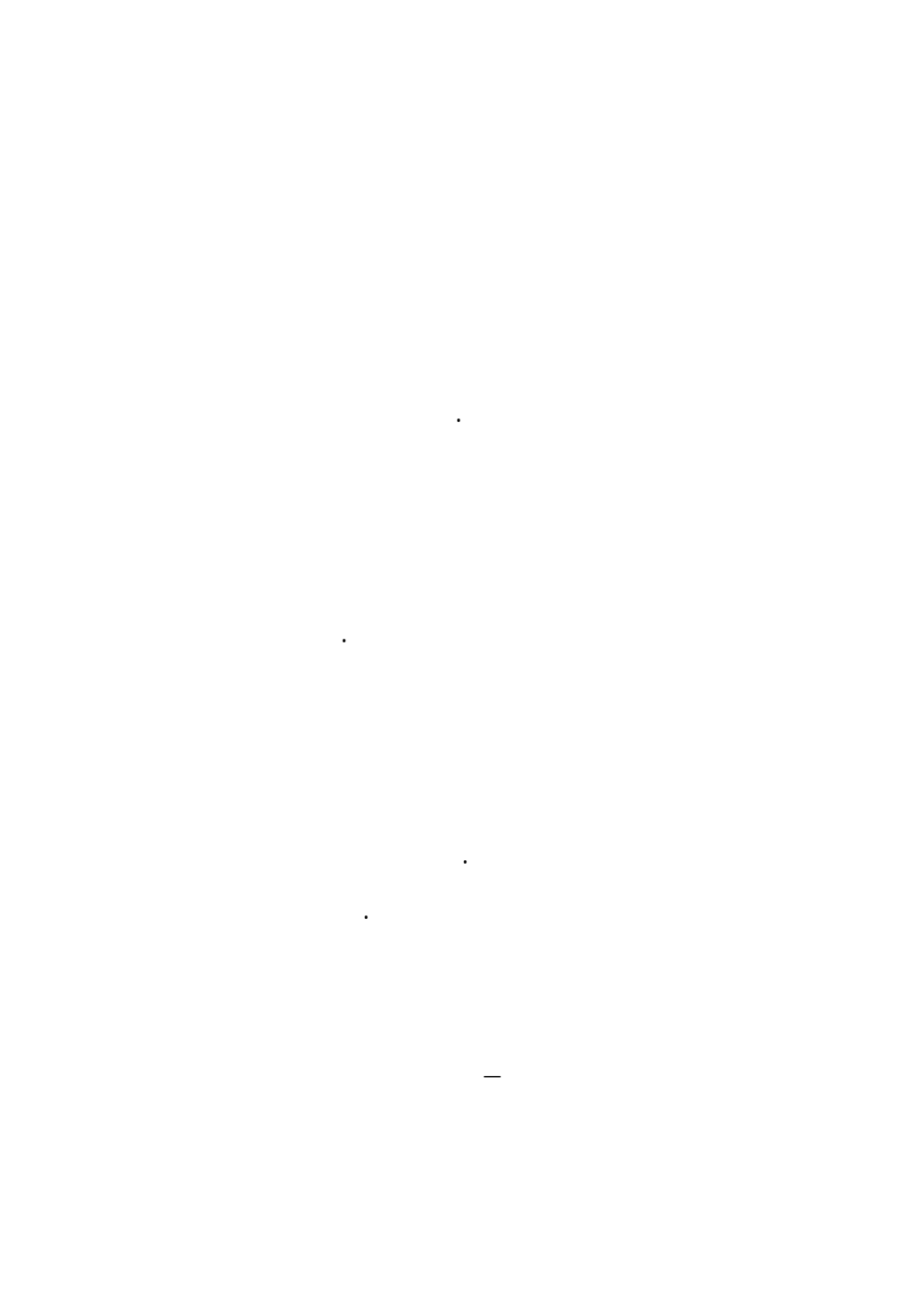
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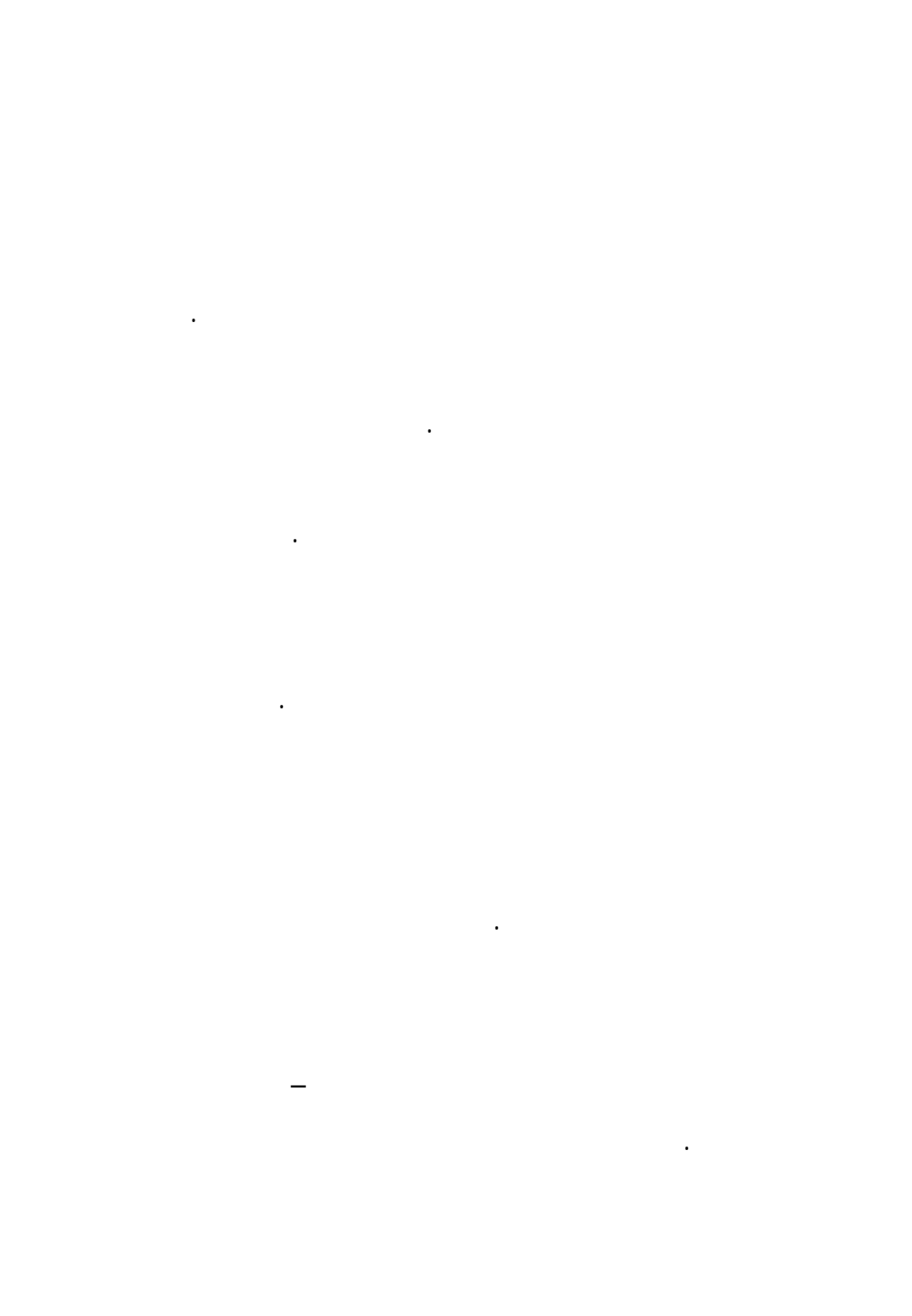
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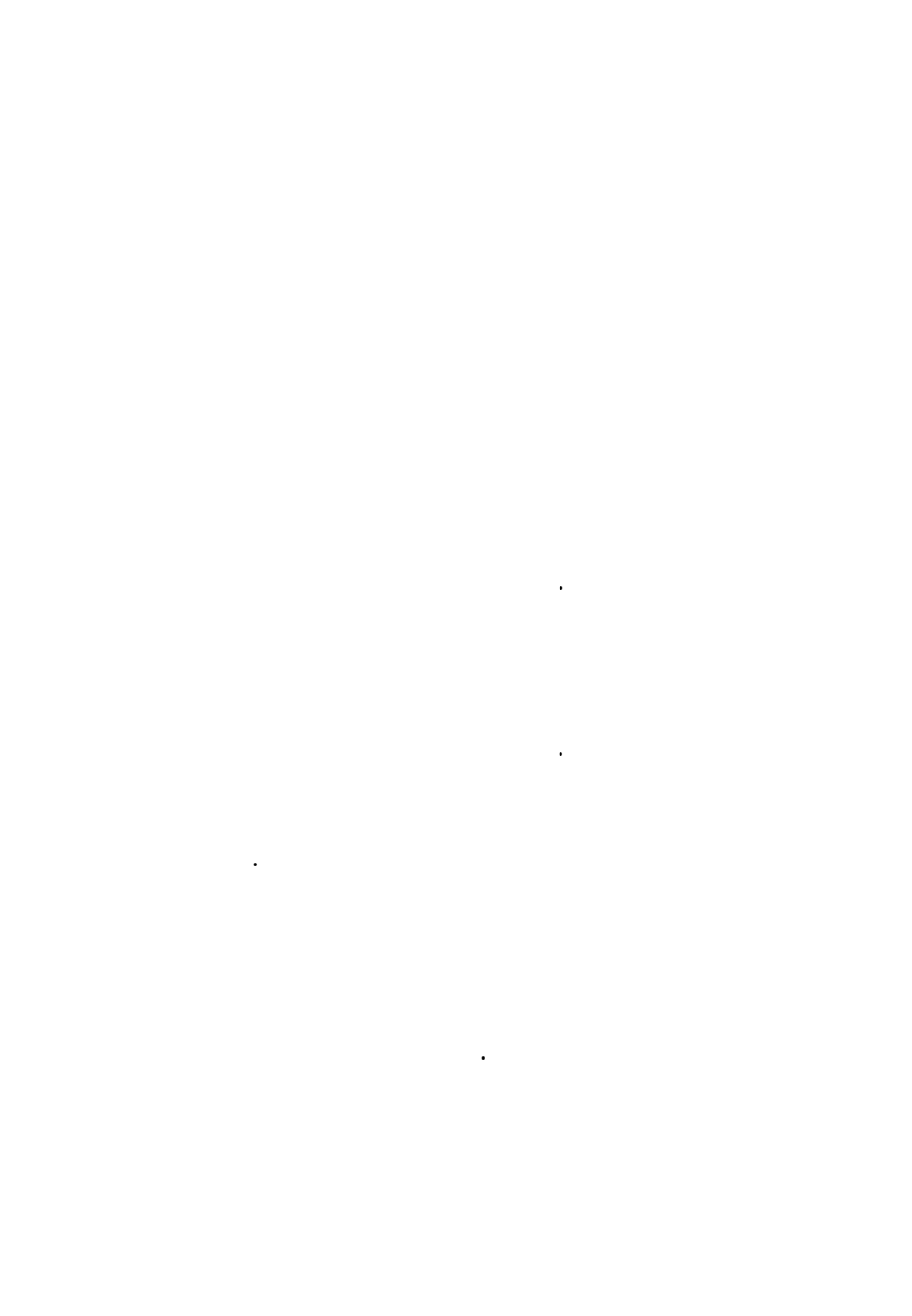
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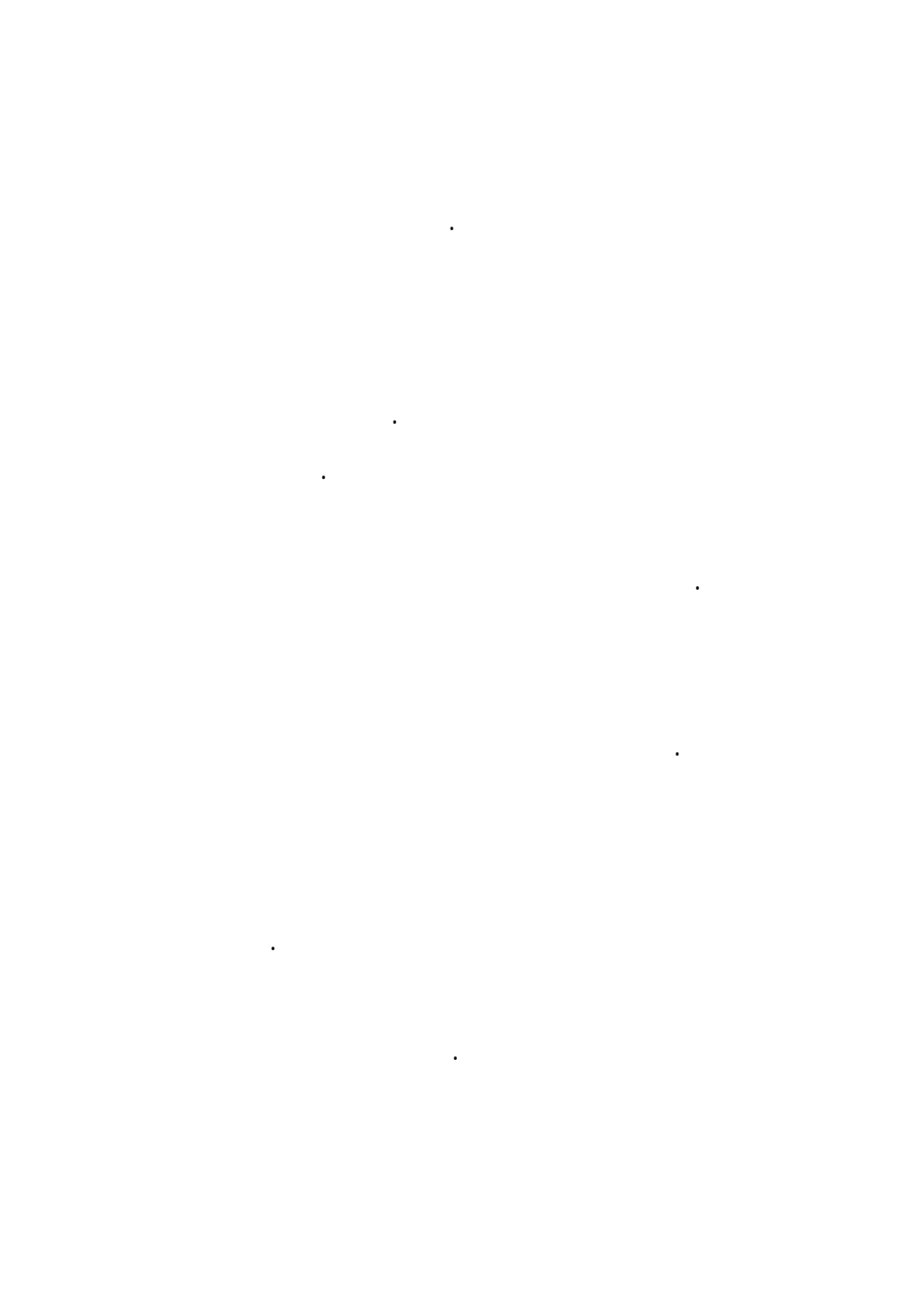
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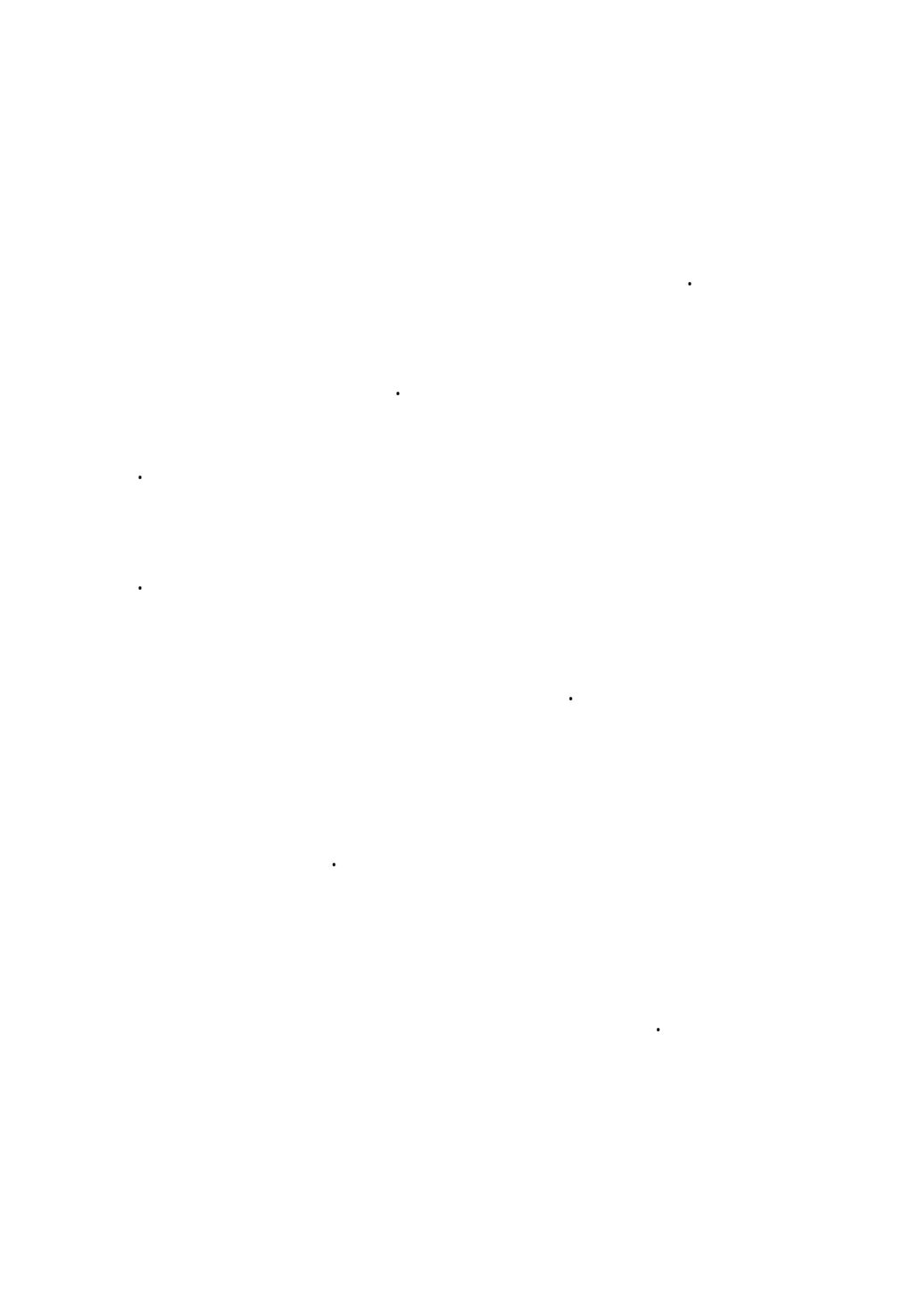
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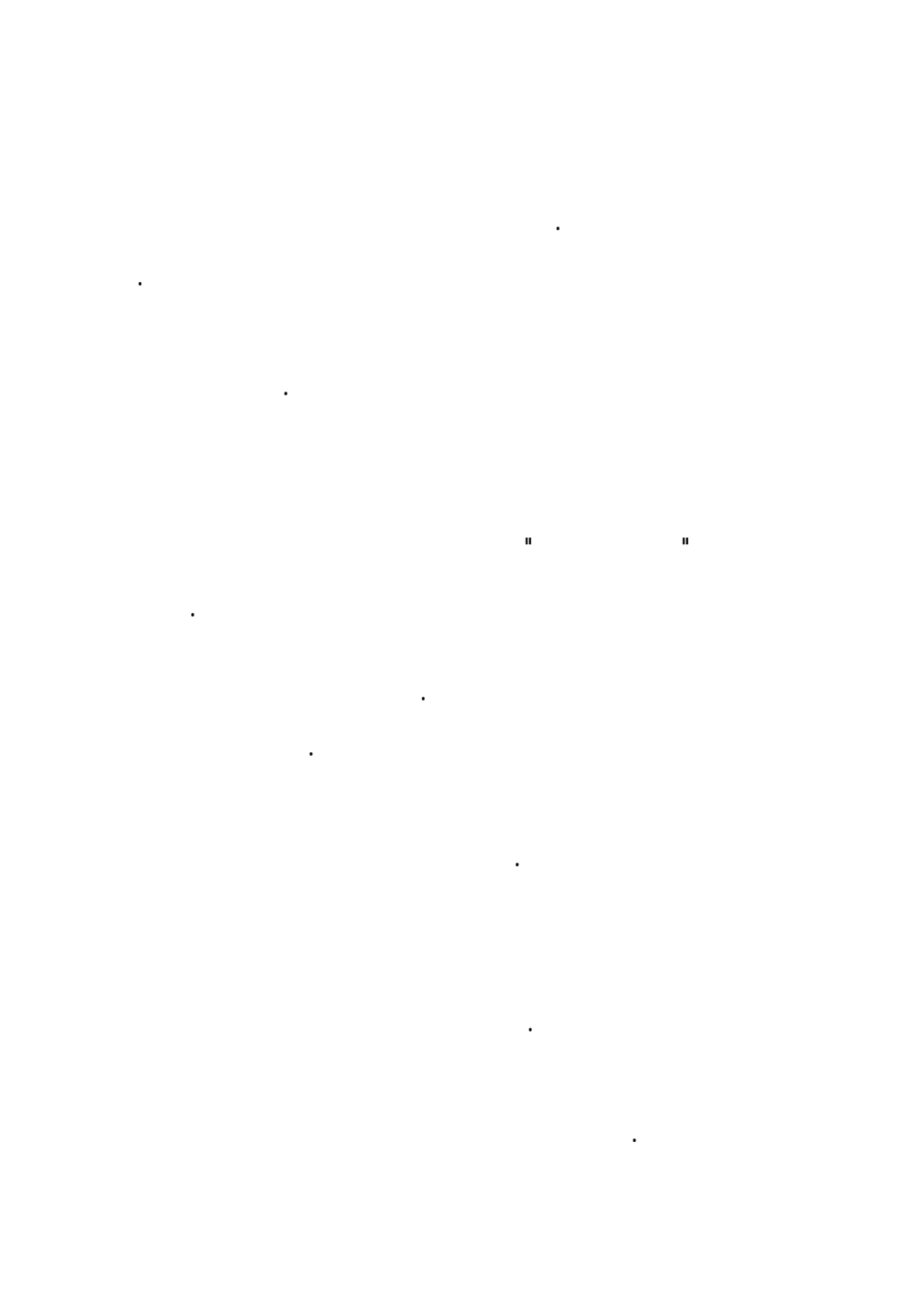
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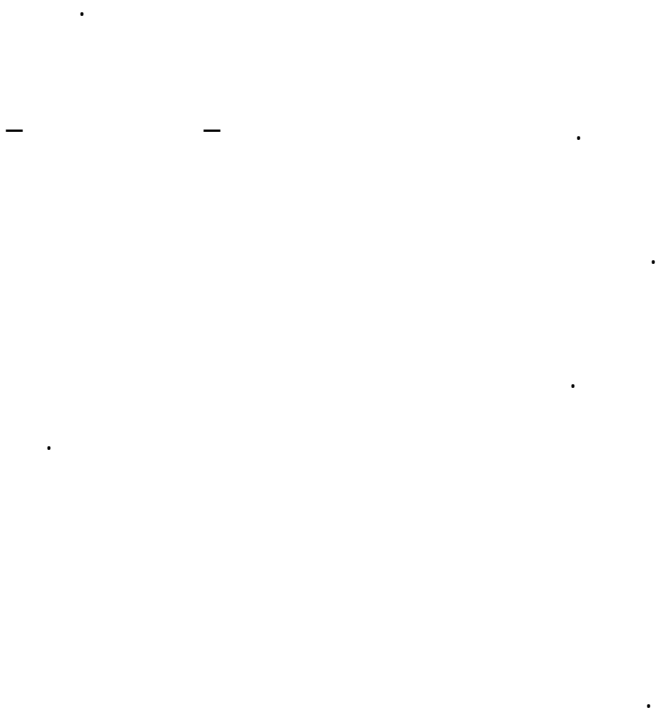
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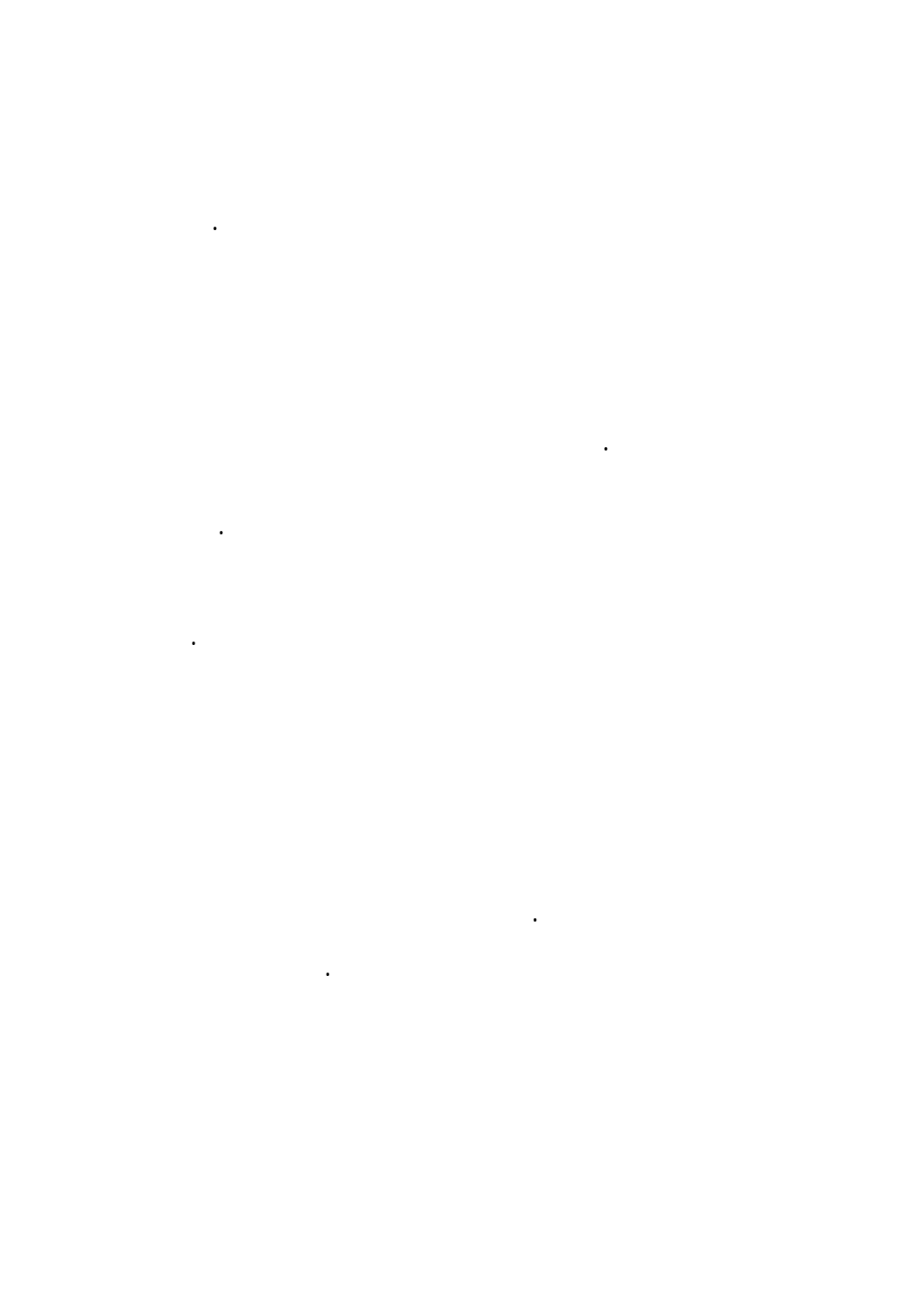
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the  $\mathbb{R}^n$  space,  $\mathbf{v}_1, \mathbf{v}_2, \dots, \mathbf{v}_n$  are the column vectors of  $\mathbf{V}$ .

Let  $\mathbf{v}_1, \mathbf{v}_2, \dots, \mathbf{v}_n$  be the column vectors of  $\mathbf{V}$ . Then  $\mathbf{V}^{-1} \mathbf{V} = \mathbf{I}$  can be written as

$$\mathbf{v}_1^T \mathbf{v}_1 + \mathbf{v}_2^T \mathbf{v}_2 + \dots + \mathbf{v}_n^T \mathbf{v}_n = \mathbf{I} \quad (1)$$

Let  $\mathbf{v}_1^T \mathbf{v}_1 = \lambda_1 \mathbf{I}$ ,  $\mathbf{v}_2^T \mathbf{v}_2 = \lambda_2 \mathbf{I}$ , ...,  $\mathbf{v}_n^T \mathbf{v}_n = \lambda_n \mathbf{I}$ . Then (1) can be written as

$$\lambda_1 \mathbf{I} + \lambda_2 \mathbf{I} + \dots + \lambda_n \mathbf{I} = \mathbf{I} \quad (2)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (2) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (3)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (3) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (4)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (4) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (5)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (5) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (6)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (6) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (7)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (7) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (8)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (8) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (9)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (9) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (10)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (10) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (11)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (11) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (12)$$

Let  $\lambda_1 = \lambda_2 = \dots = \lambda_n = \lambda$ . Then (12) can be written as

$$\lambda \mathbf{I} + \lambda \mathbf{I} + \dots + \lambda \mathbf{I} = \mathbf{I} \quad (13)$$

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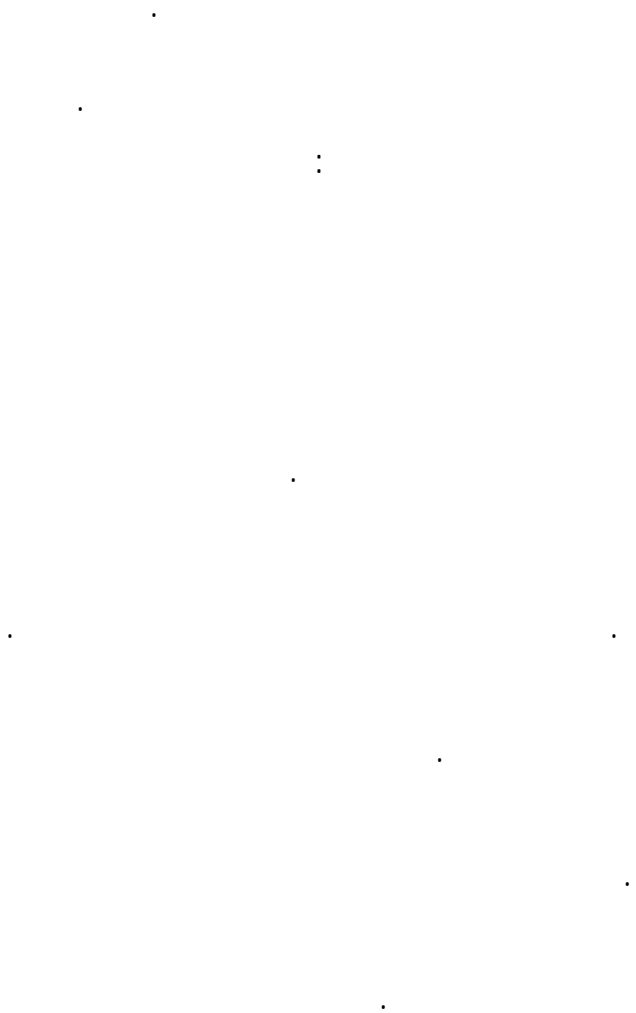
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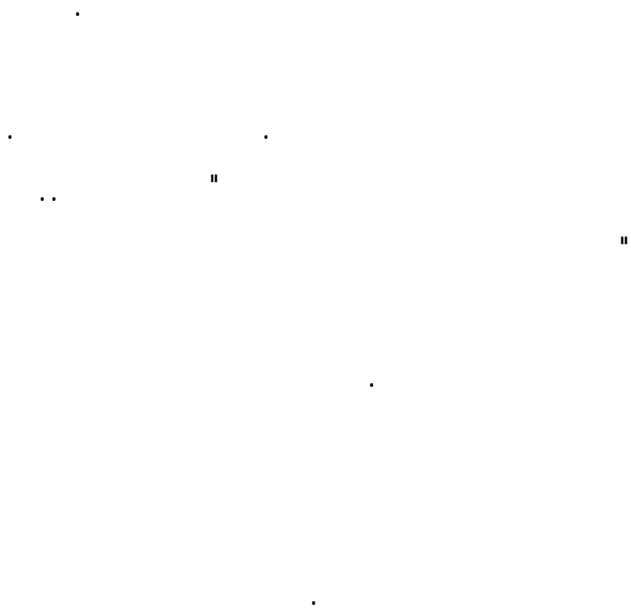
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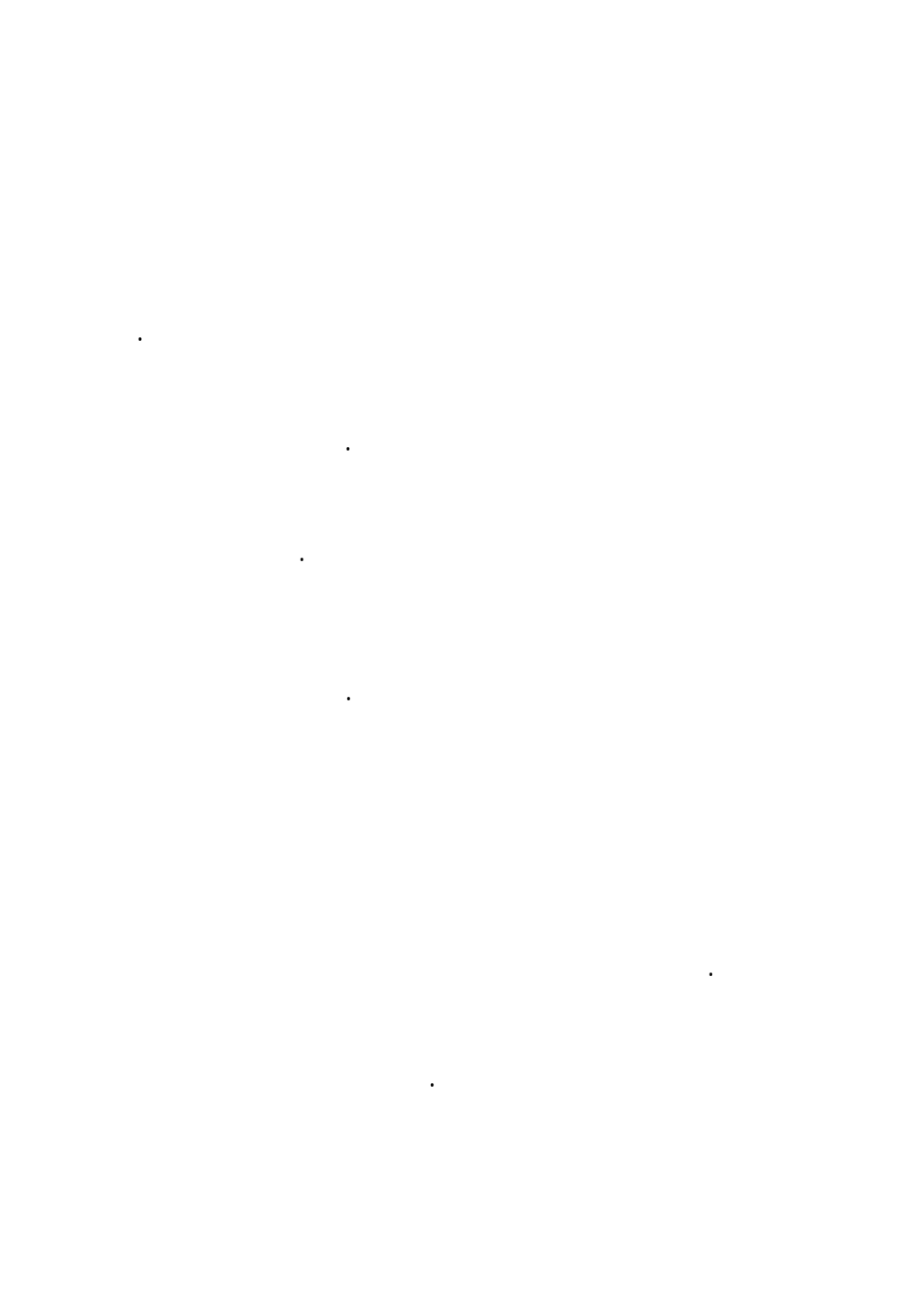
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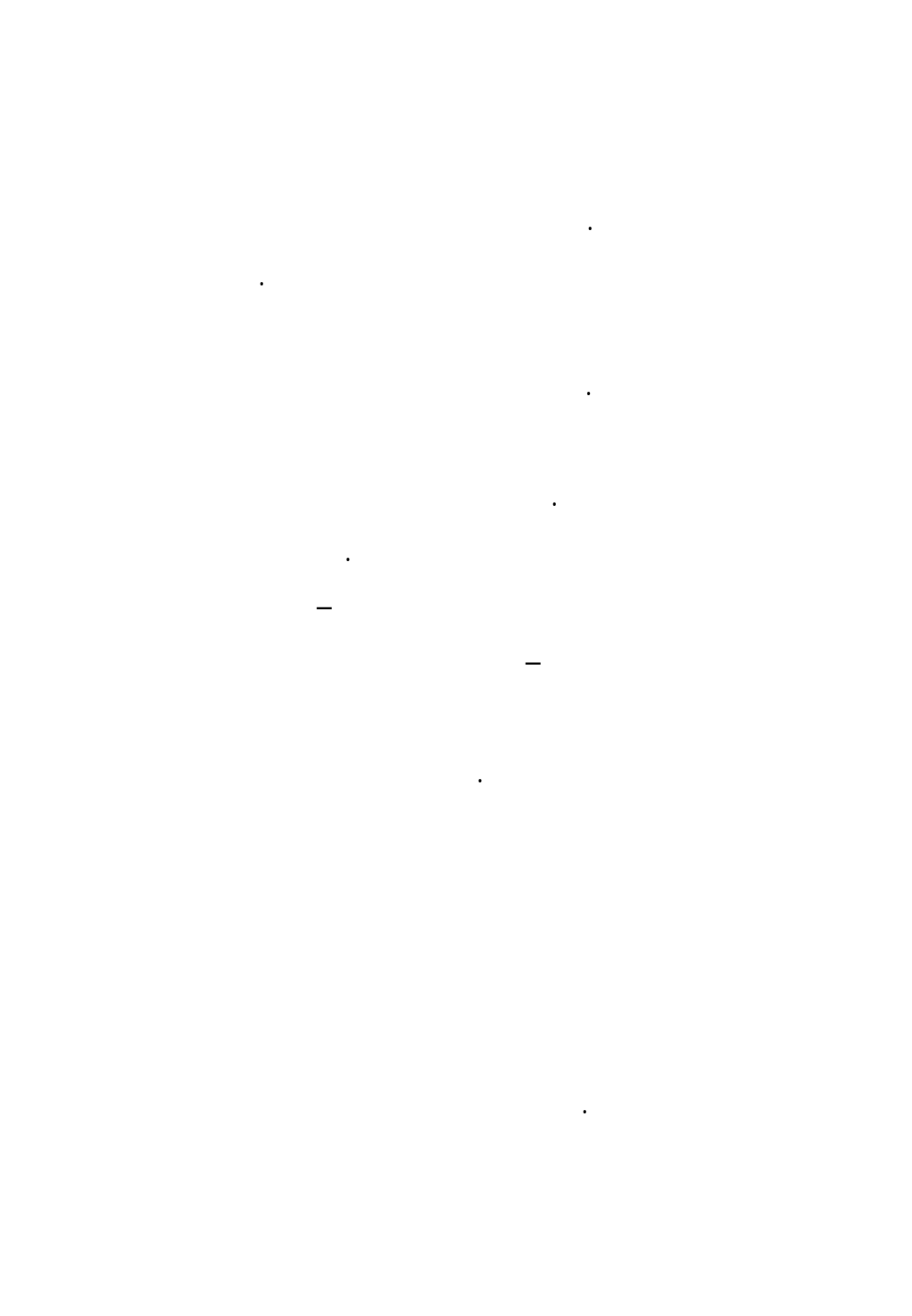
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