

INVESTIGACIÓN DE OPERACIONES I

2024-2

Investigación

Del lat. investigatio, -ōnis.

1. **f. investigación** que tiene por fin **ampliar** el conocimiento científico, sin perseguir, en principio, ninguna aplicación práctica.

Sinónimos o afines de investigación.

Exploración, indagación, averiguación, búsqueda, encuesta, pregunta, sondeo.

Competencias a desarrollar

- **Formula** y **plantea** modelos matemáticos lineales en situaciones reales del entorno, **interpreta** las soluciones obtenidas a través de los diferentes criterios de optimización y las expresa en un lenguaje accesible.
- **Analiza** y **desarrolla** modelos matemáticos para la solución de problemas lineales relacionados con el entorno, y obtiene posibles soluciones considerando la **optimización** de la **función** objetivo, e incluye aspectos sociales y de sustentabilidad.
- **Toma decisiones**, con base en los conocimientos teóricos y prácticos adquiridos, que le permiten generar **propuestas** de mejora en los sistemas bajo estudio, a fin de apoyar la toma de decisiones.

Temario

Temas	Subtemas
Introducción a la Investigación de Operaciones	1.1 Conceptos y definiciones de la investigación de operaciones. 1.2 Fases de estudio de la investigación de operaciones. 1.3 Principales aplicaciones de la investigación de operaciones. 1.4 Formulación de modelos de programación lineal.

Se discutirá las etapas de un proyecto de IO y contrasta con los pasos del método científico?

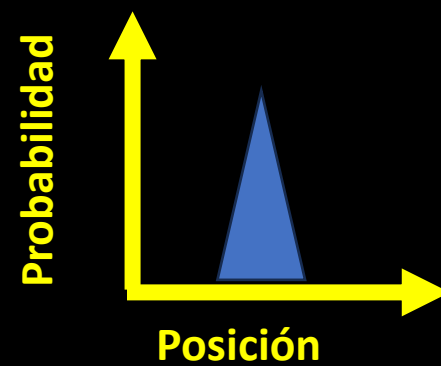
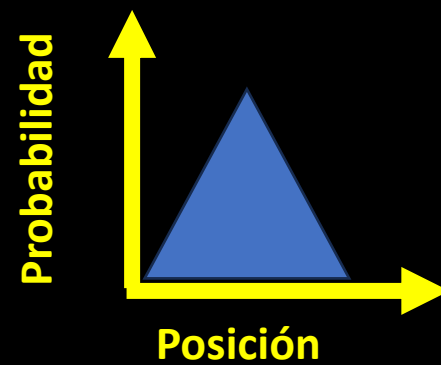
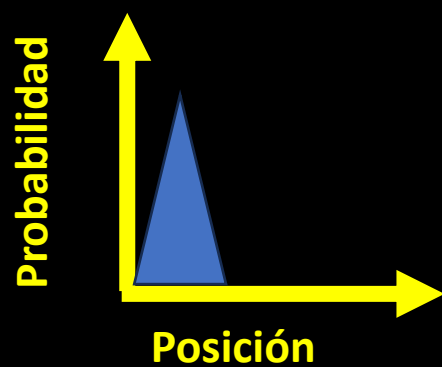
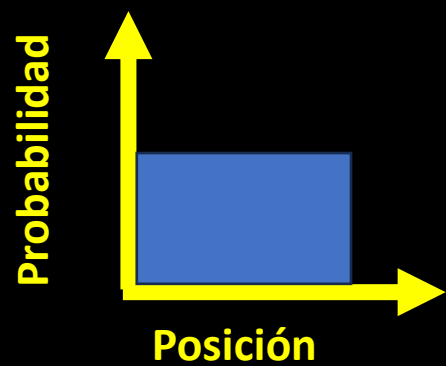
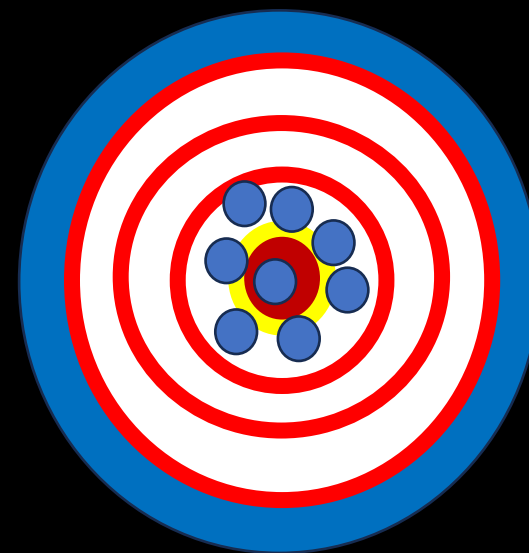
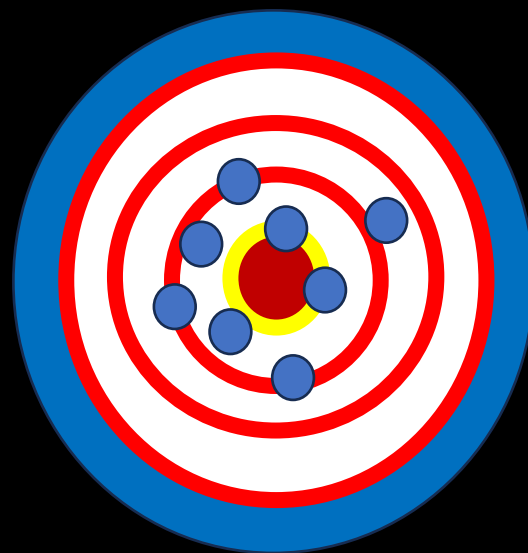
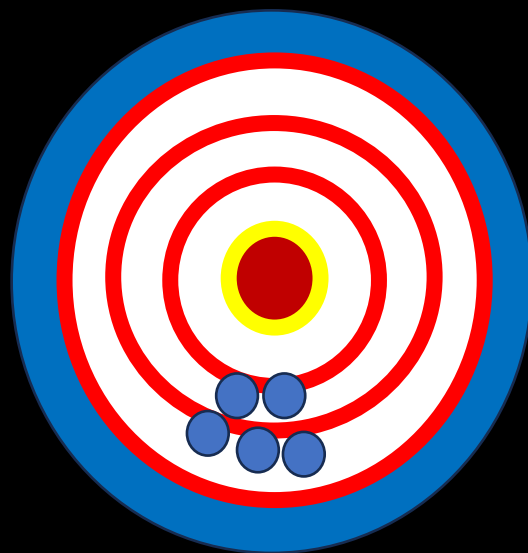
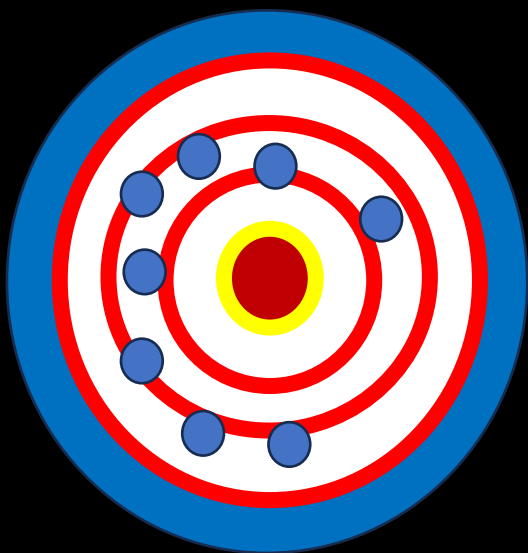
¿Qué método o herramienta has utilizado para ampliar el conocimiento de un proyecto?

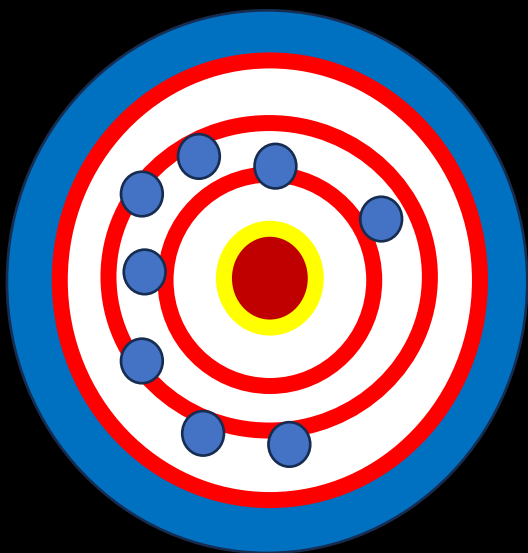
Variación vs Centrado

¿Qué es precisión, y exactitud?

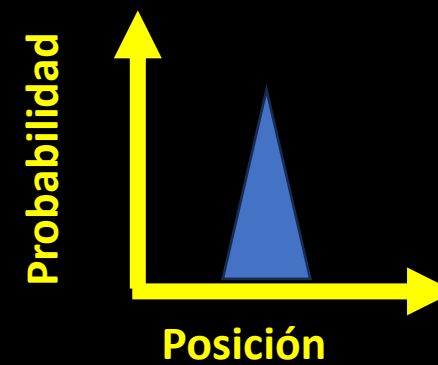
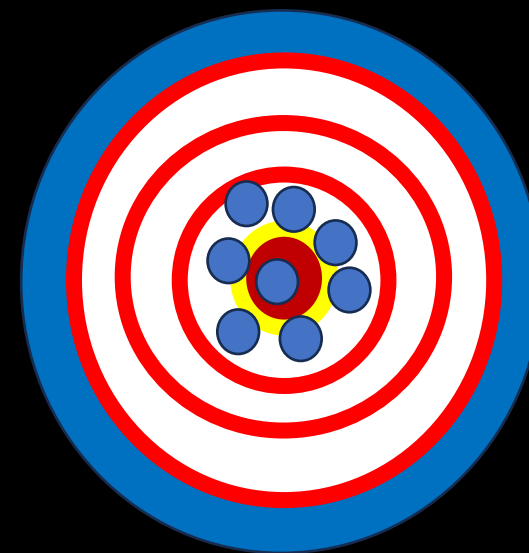
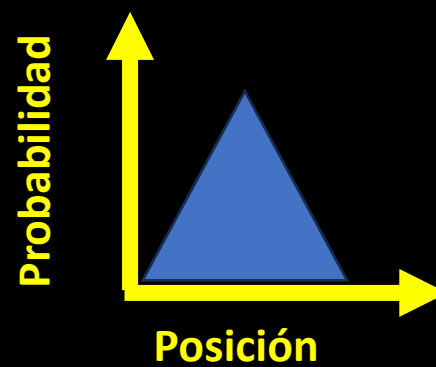
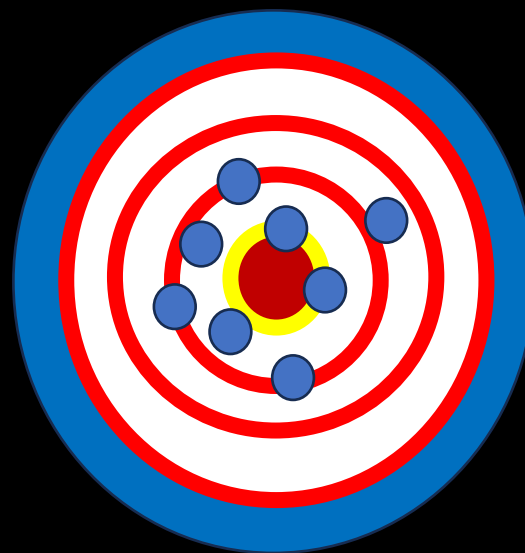
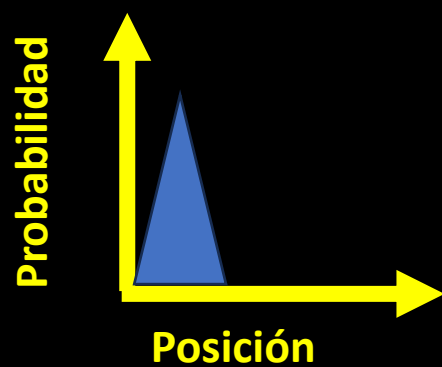
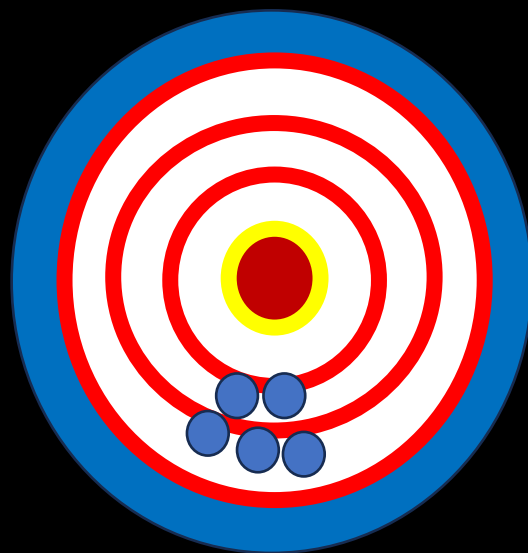
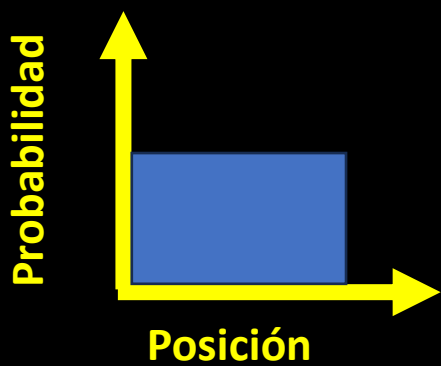
La **precisión** es la dispersión respecto de los datos obtenidos.

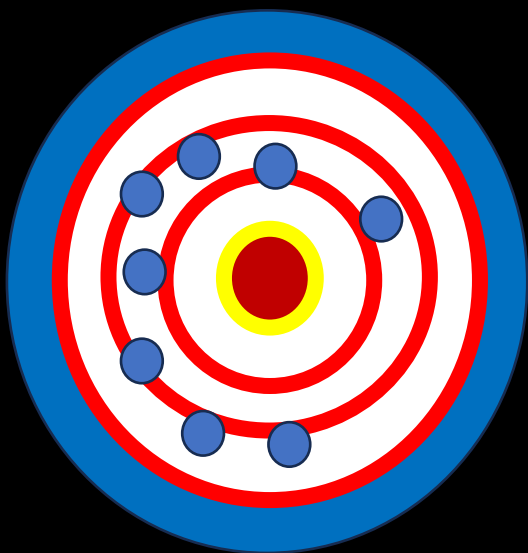
La **exactitud** es la cercanía que muestra la desviación de tus datos respecto a un objetivo.



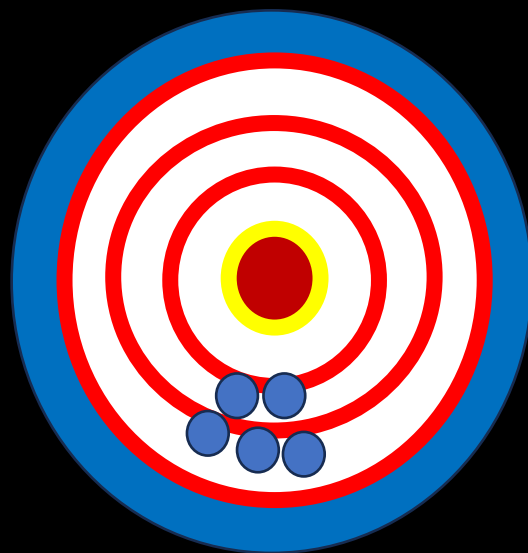
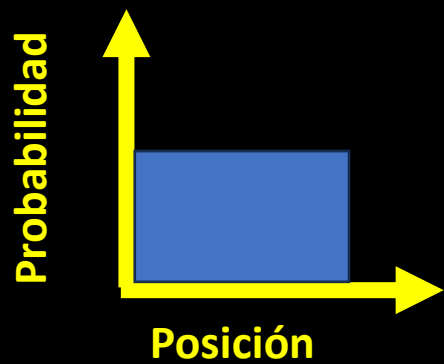


Ni precisión
Ni exactitud

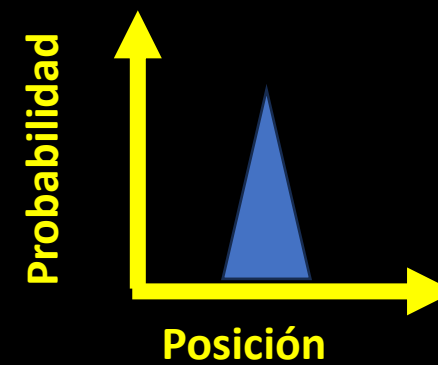
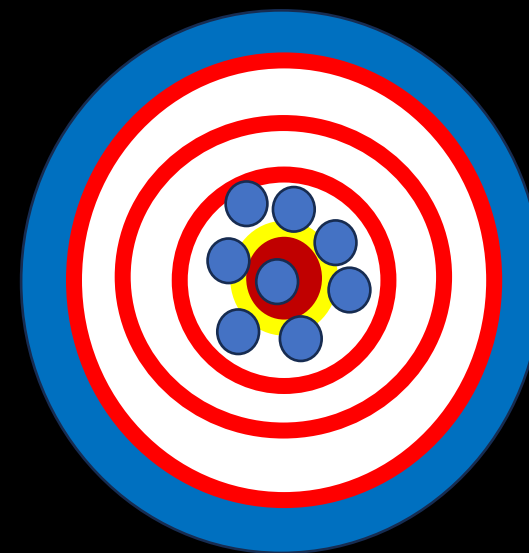
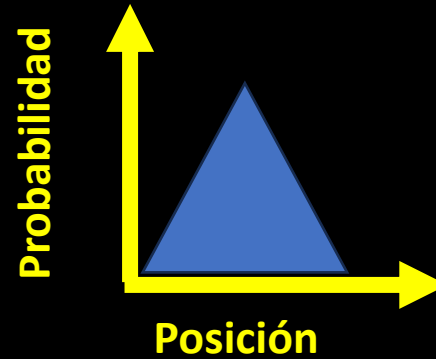
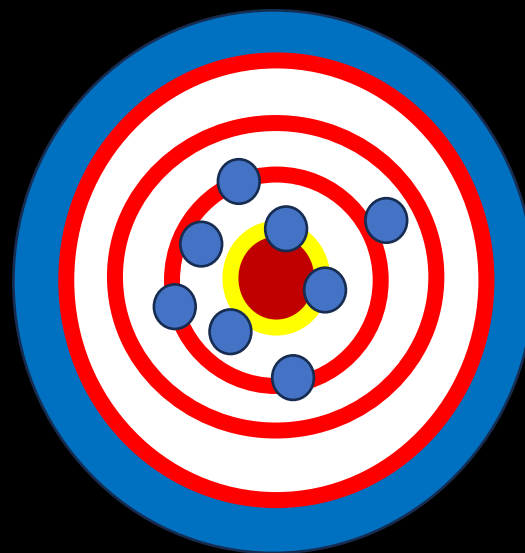
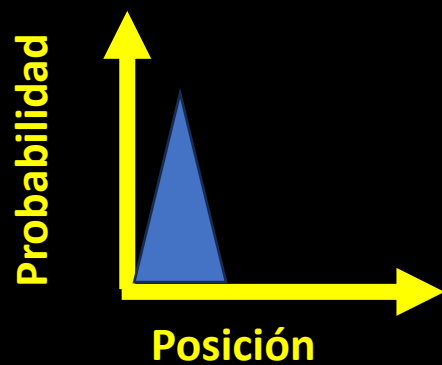


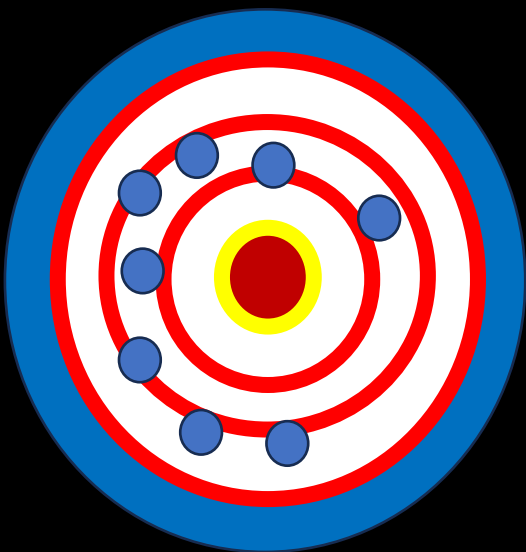


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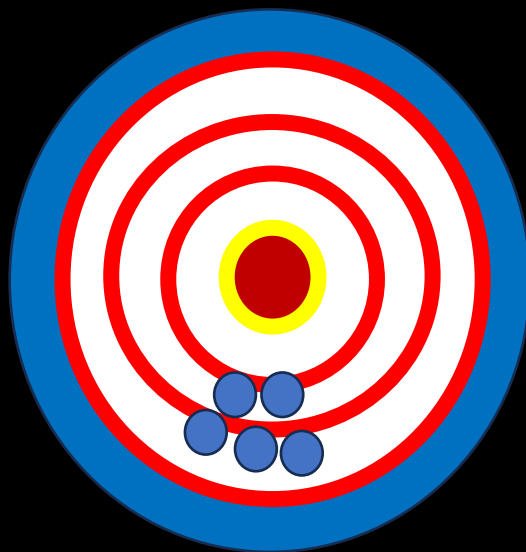
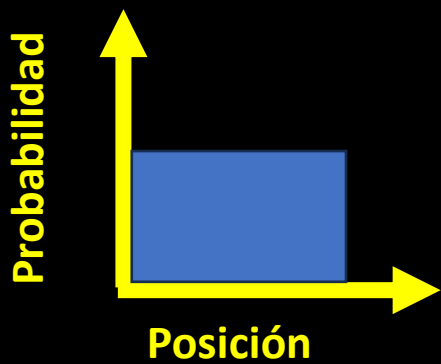


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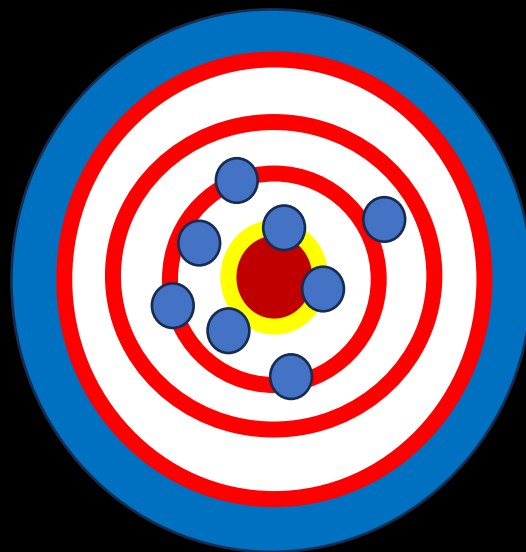
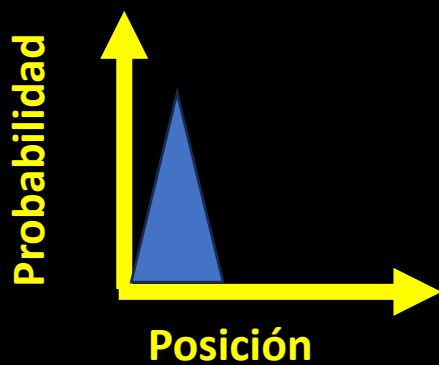




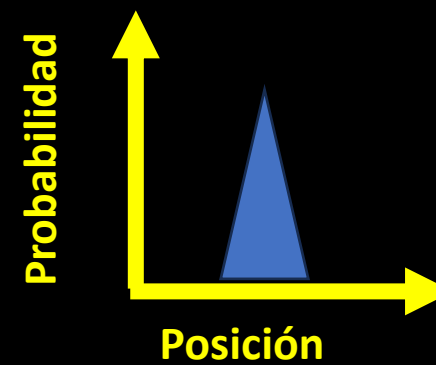
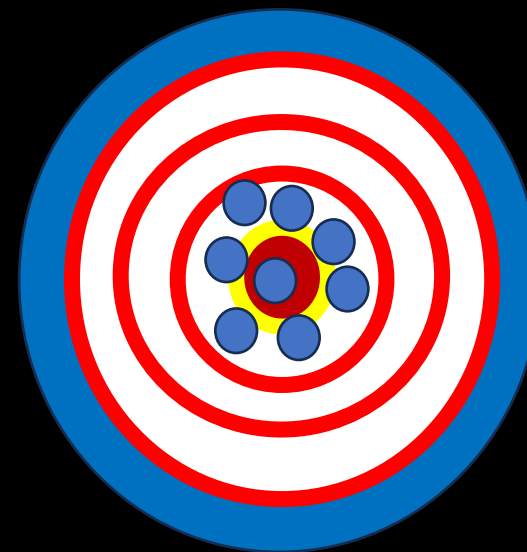
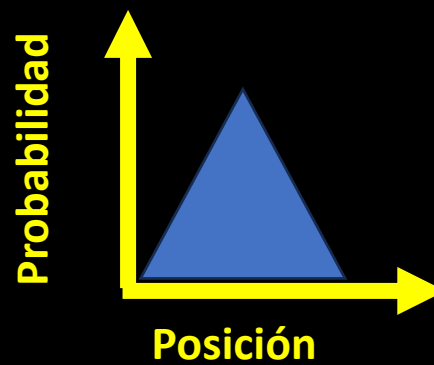
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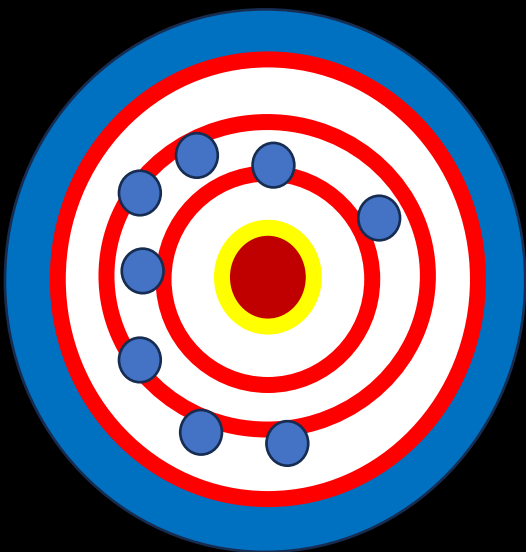


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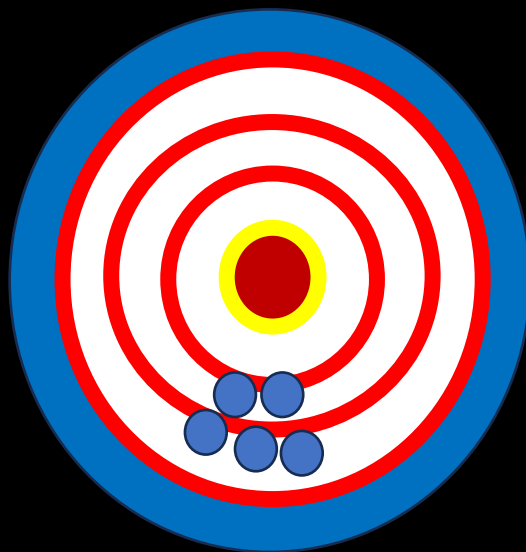
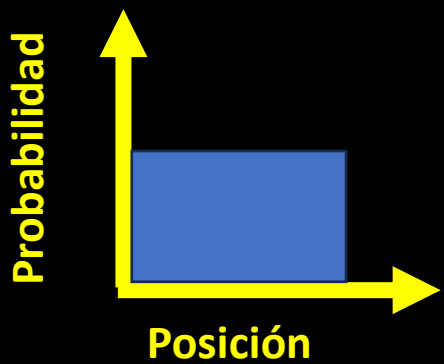


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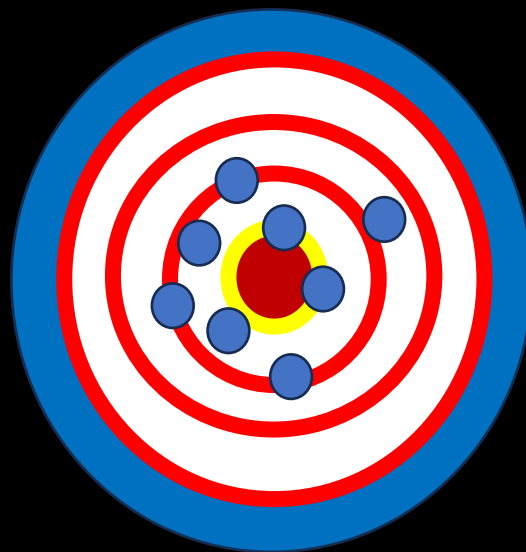
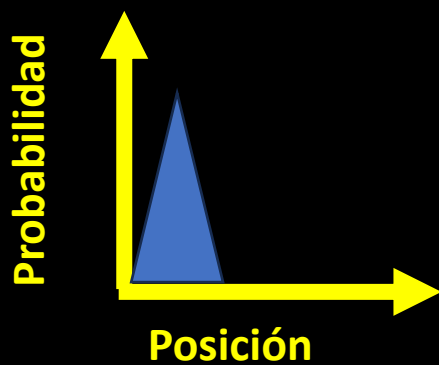




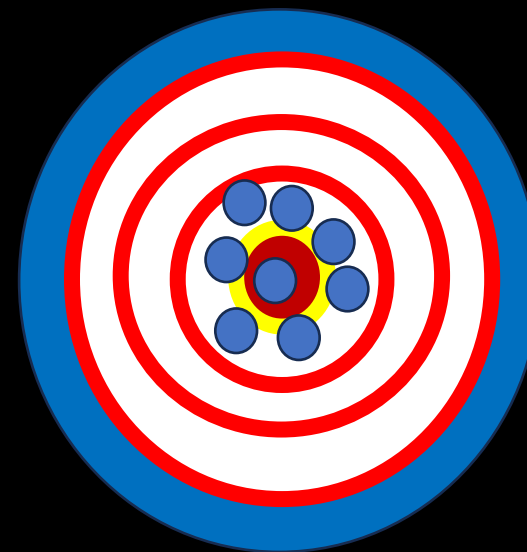
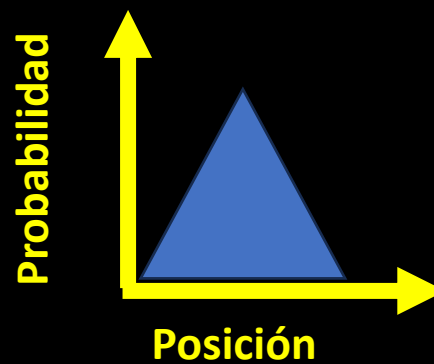
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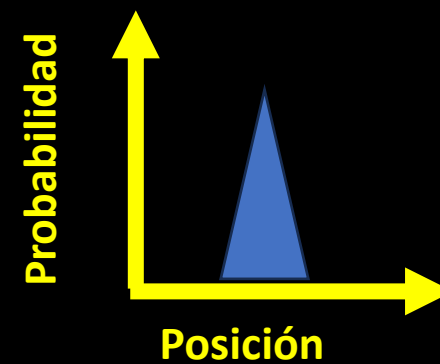
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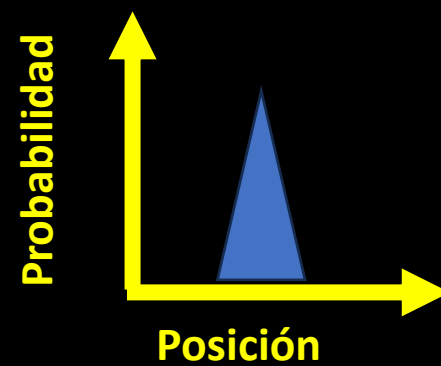
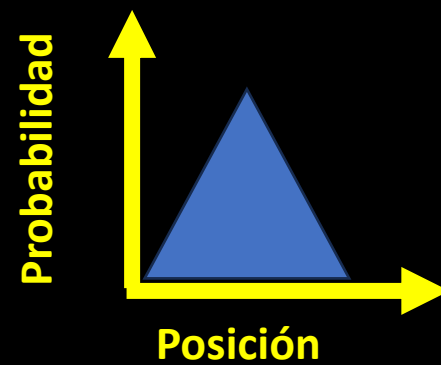
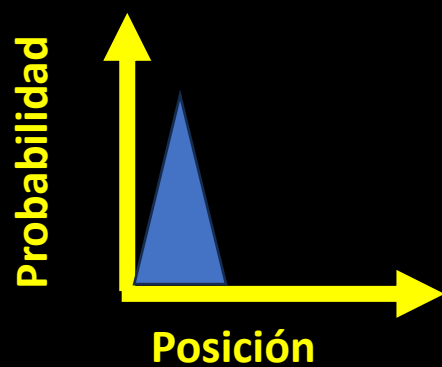
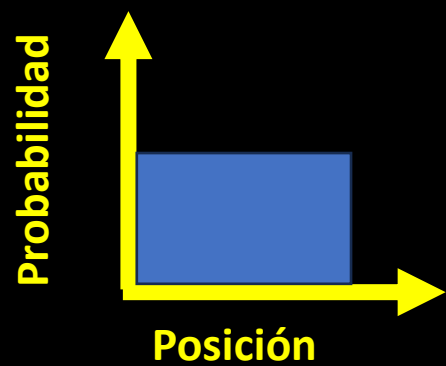
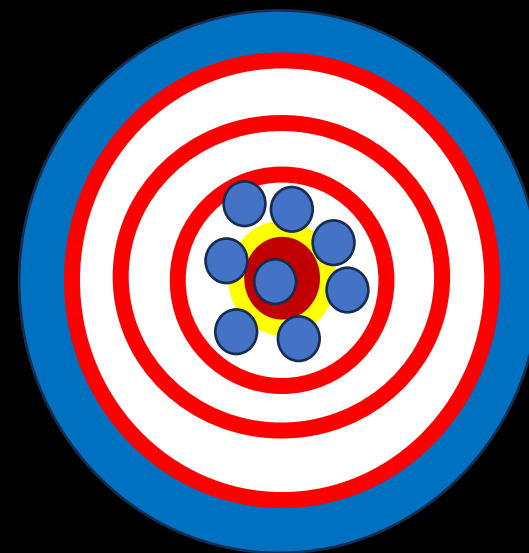
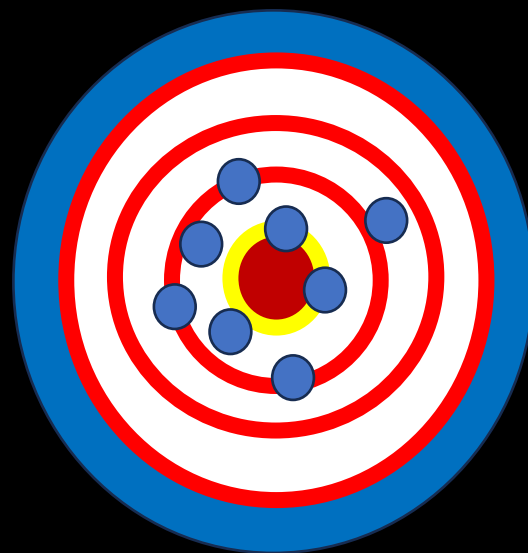
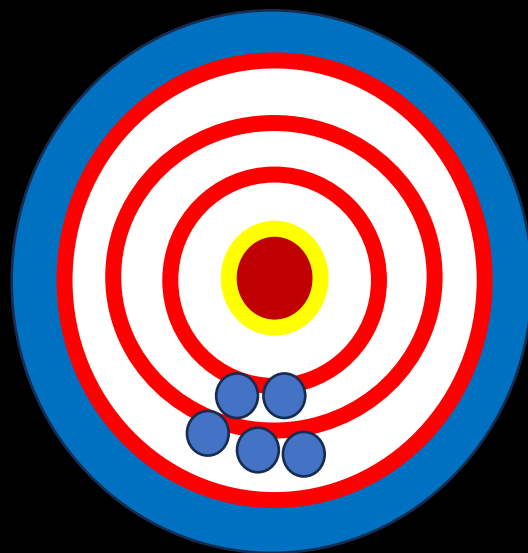
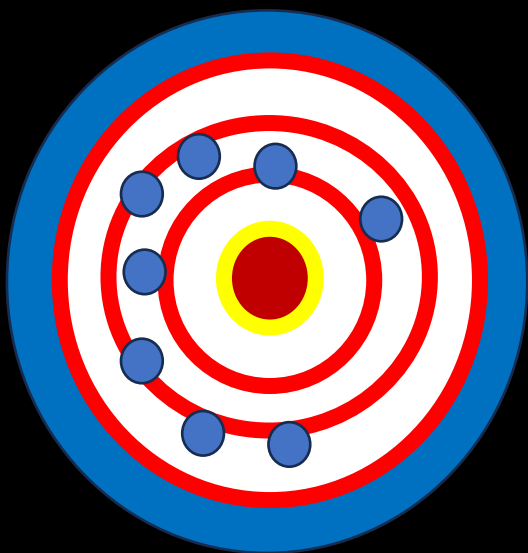
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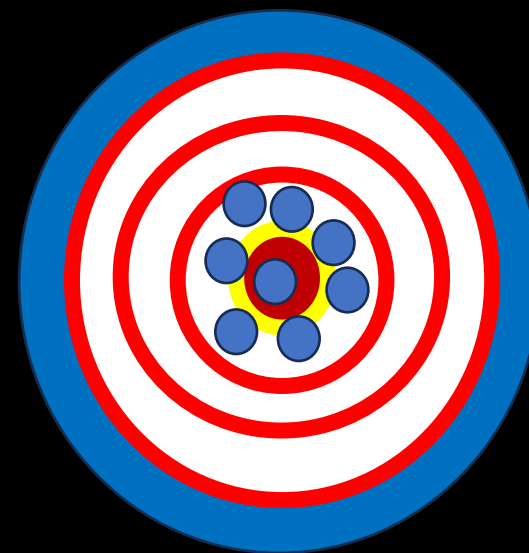
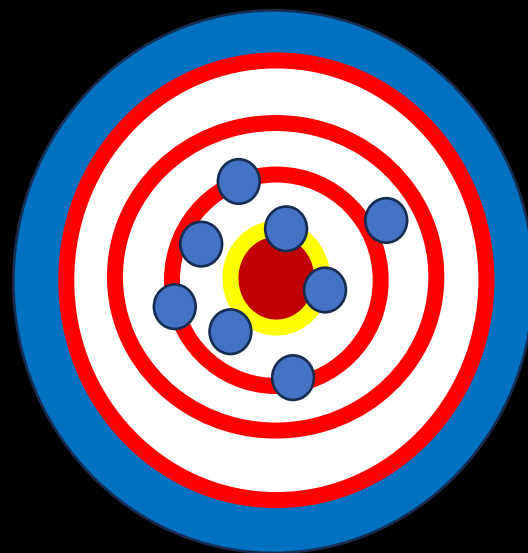
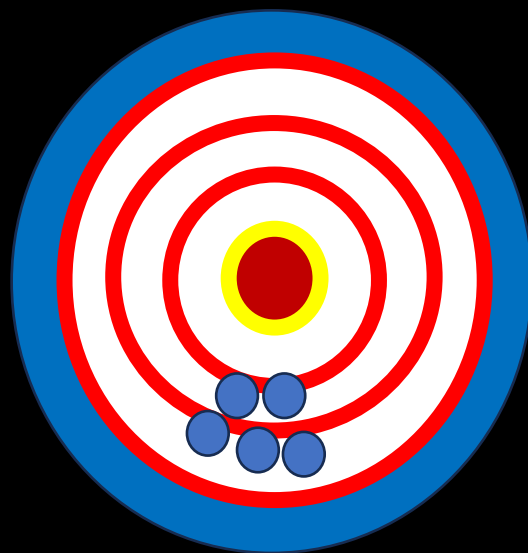
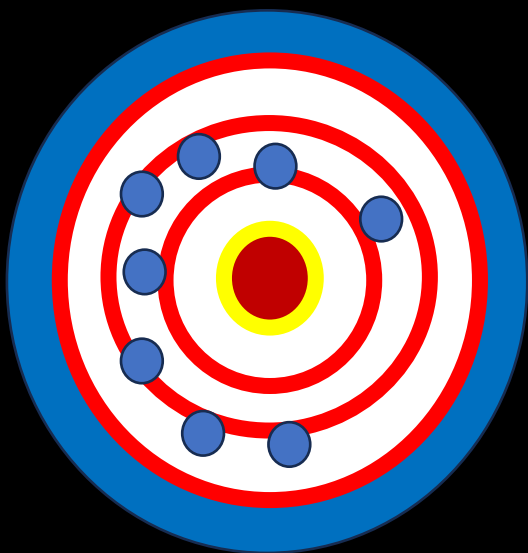


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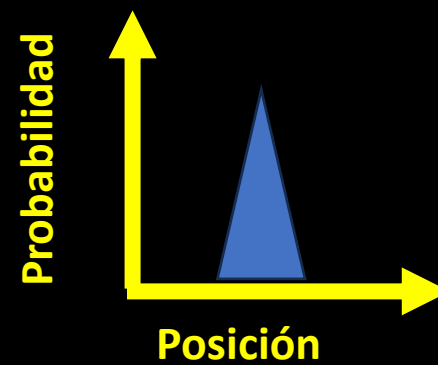
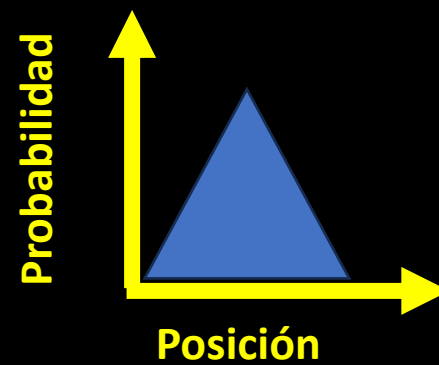
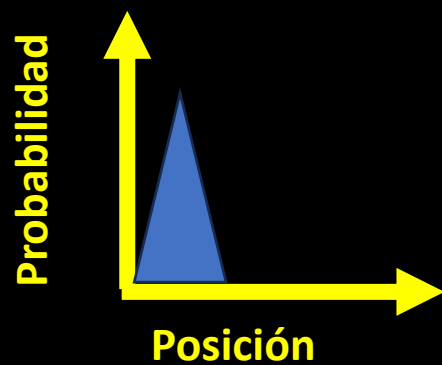
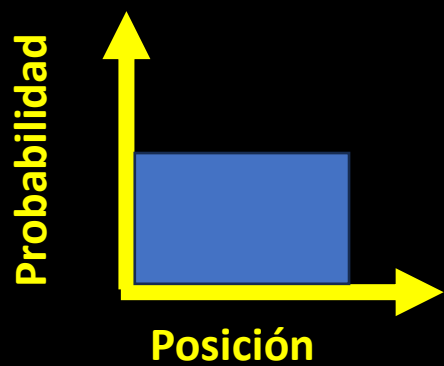


¿Qué fenómeno crees que se presenta en los procesos físicos?

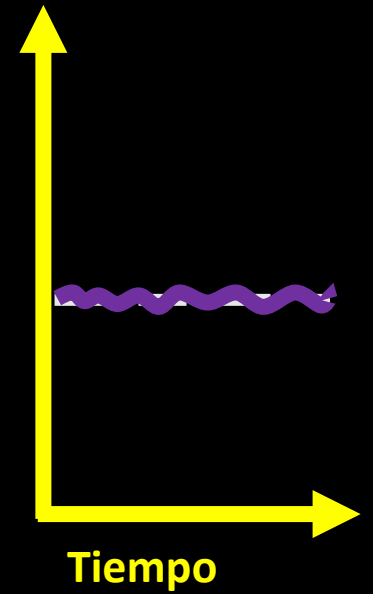
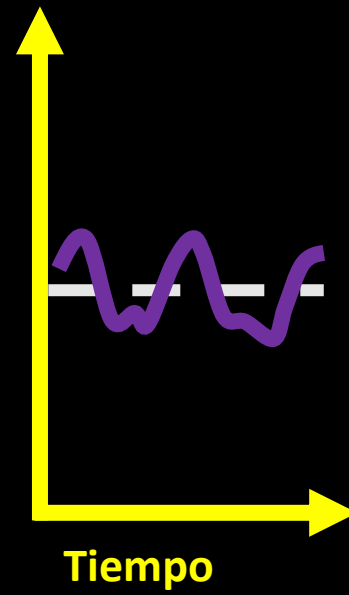
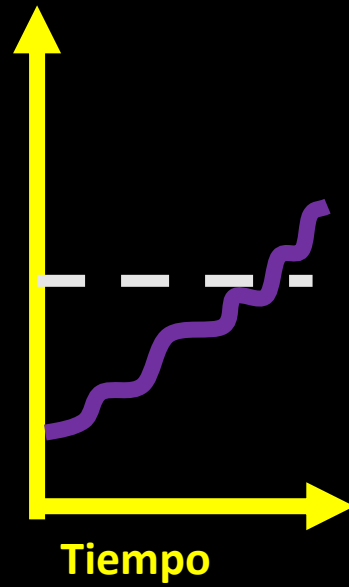
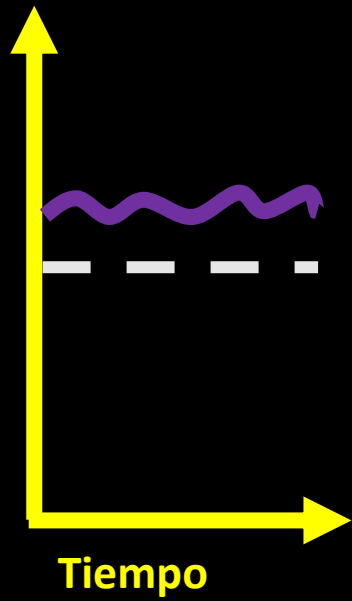




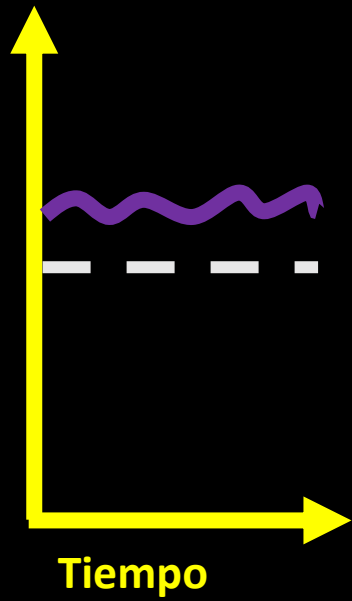
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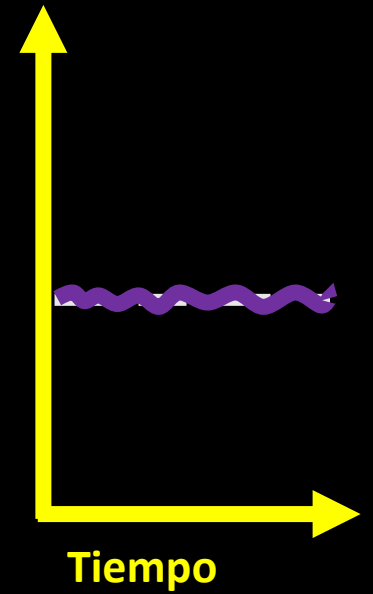
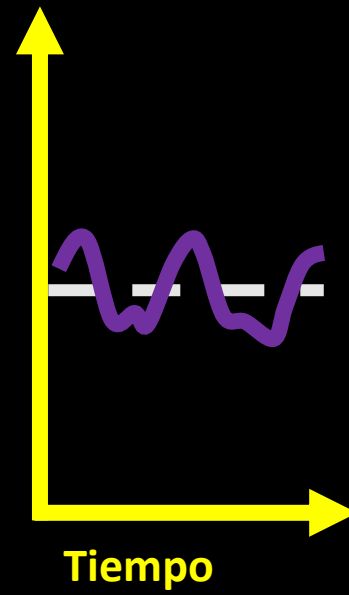
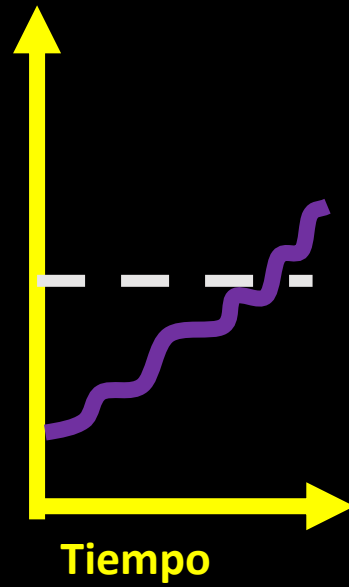
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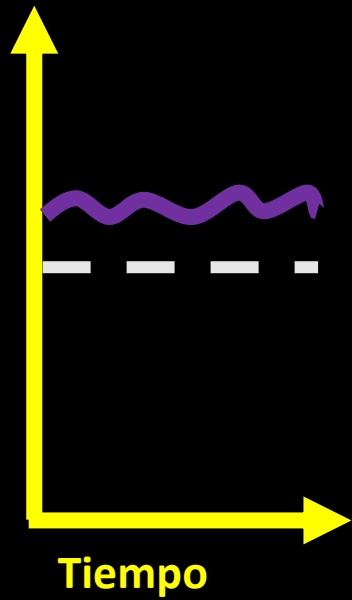
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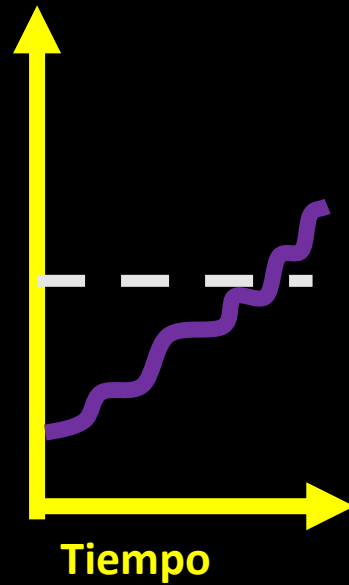
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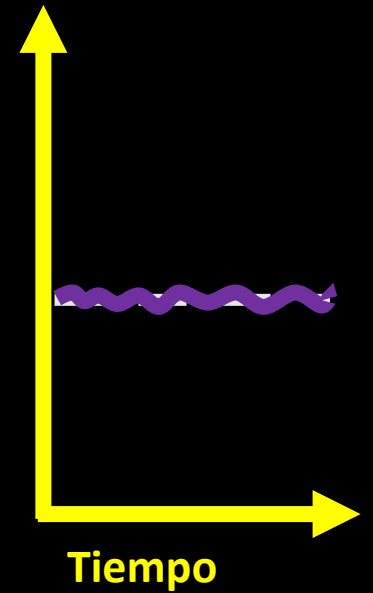
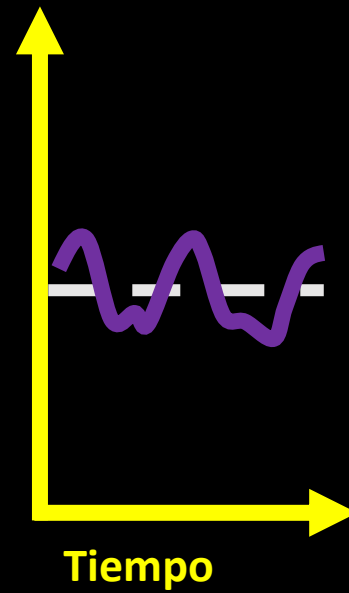
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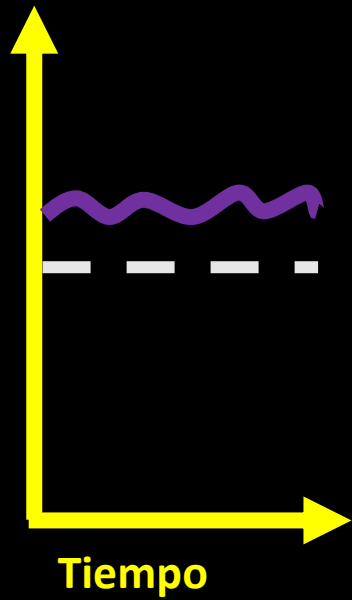
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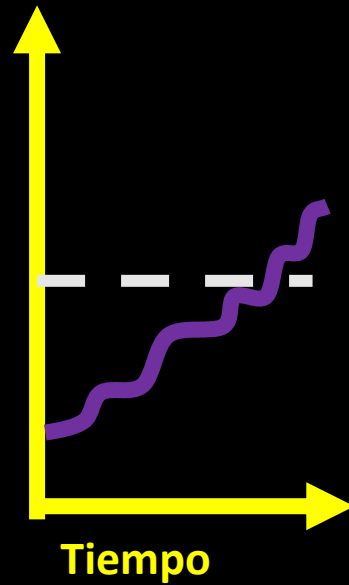
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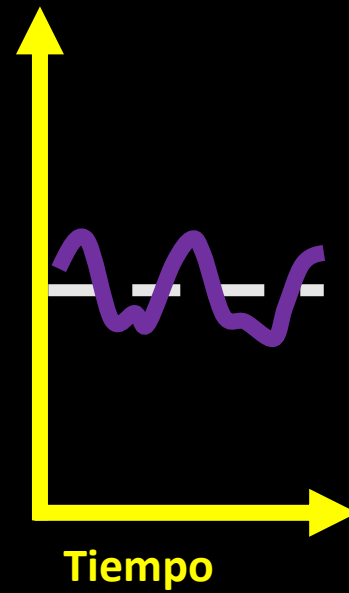
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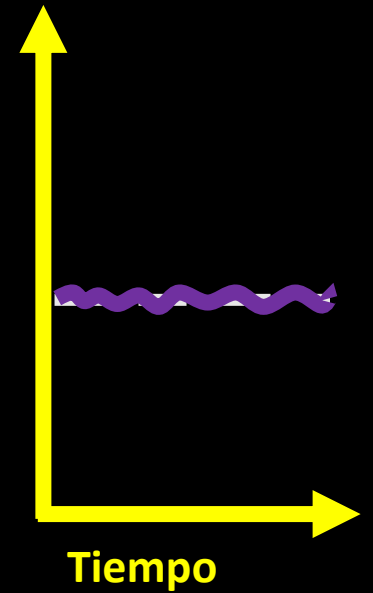
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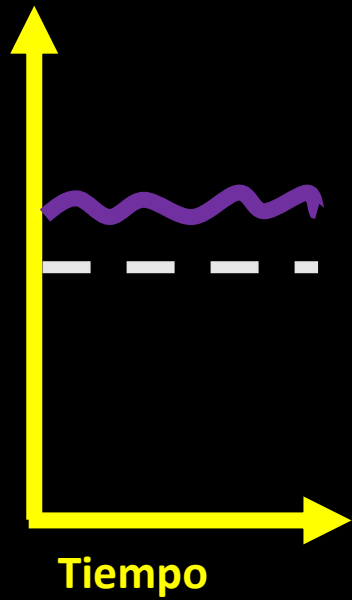
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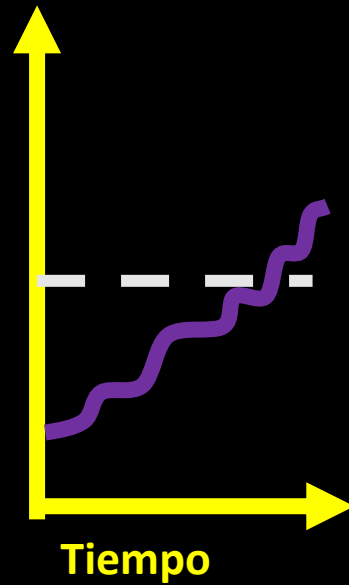
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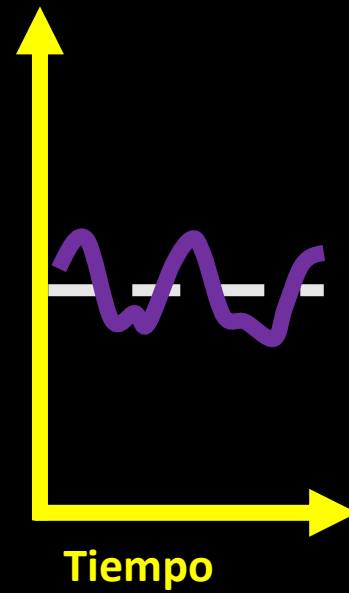
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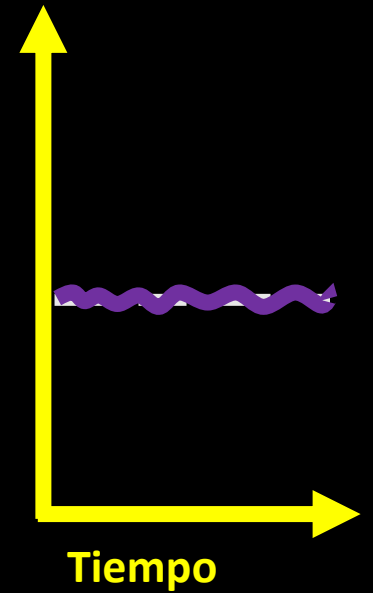
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**No Preciso
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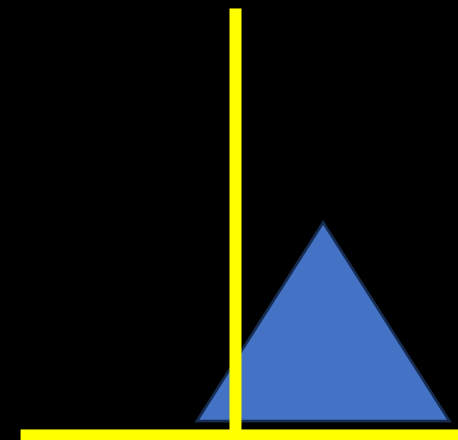
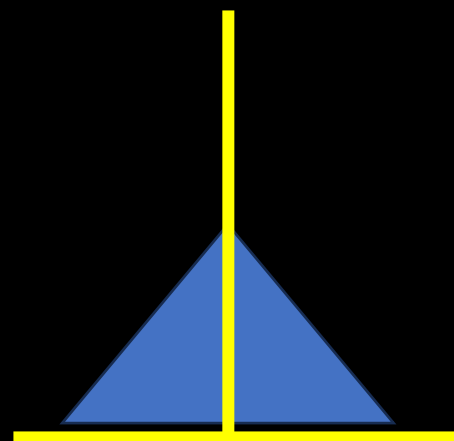
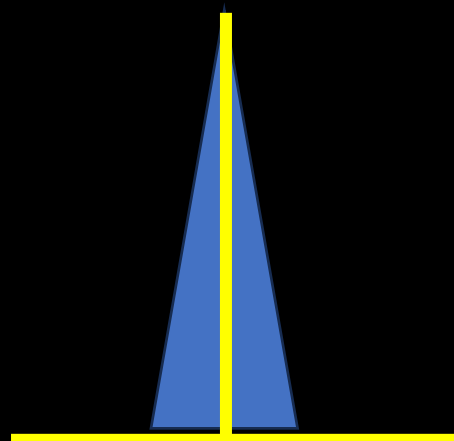
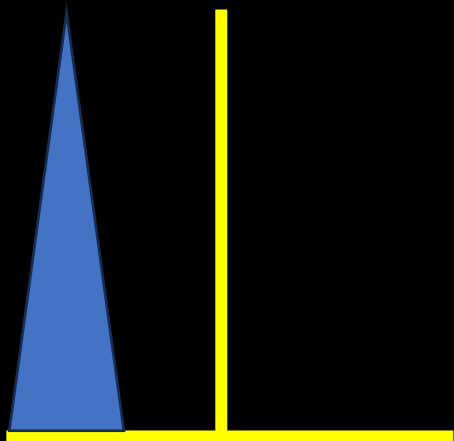


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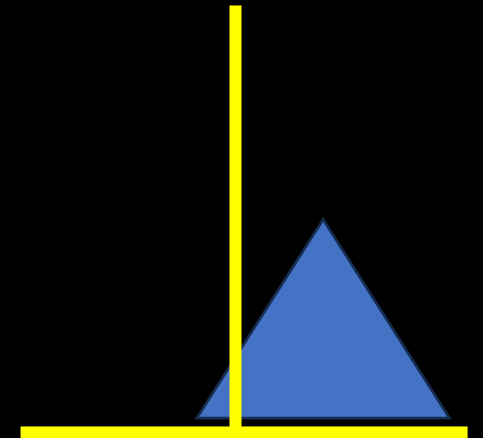
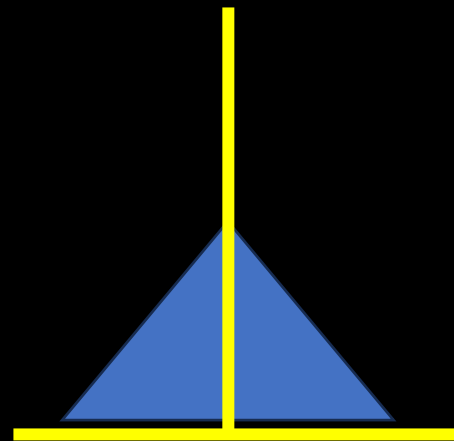
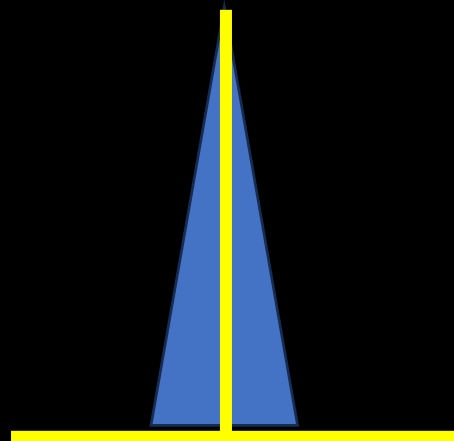
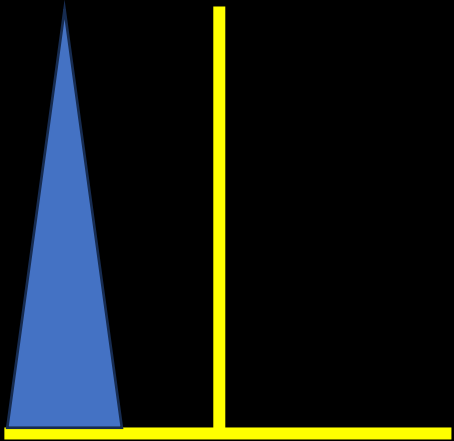


**Preciso
Exacto**

Variación vs Centrado

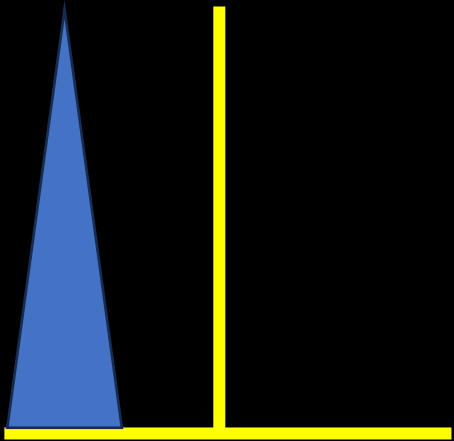


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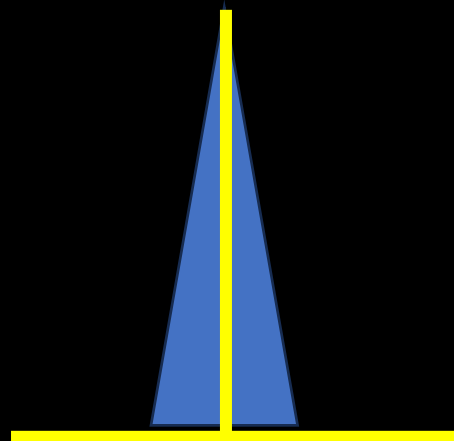


Preciso
no exacto

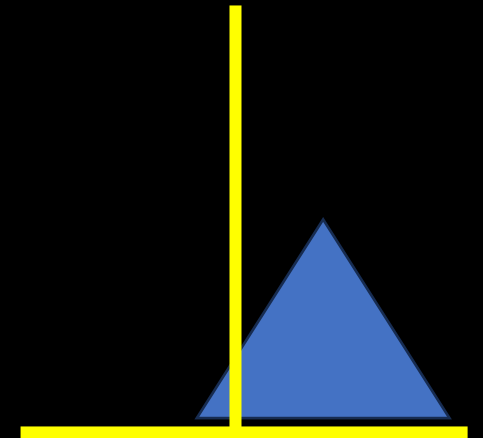
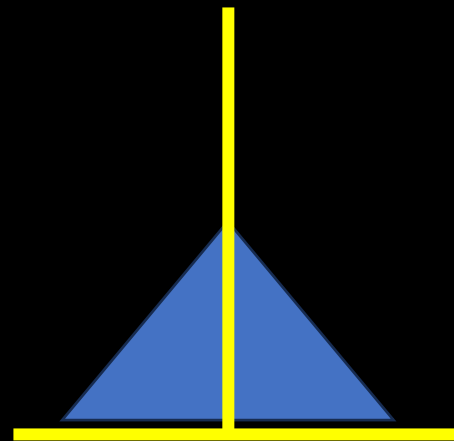
Variación vs Centrado



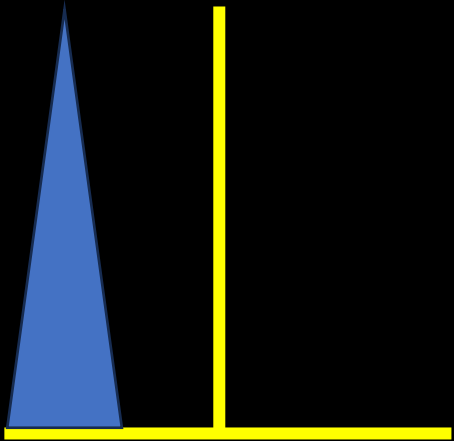
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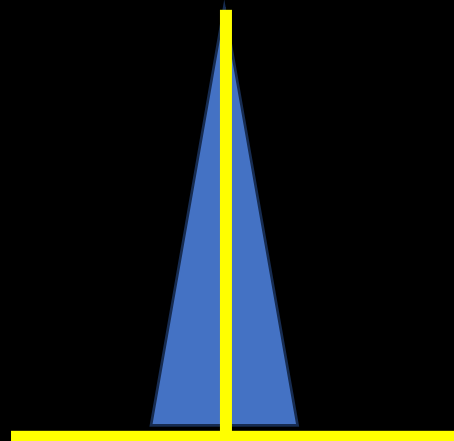
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exacto



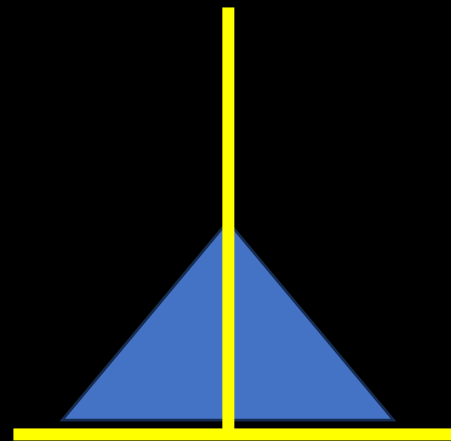
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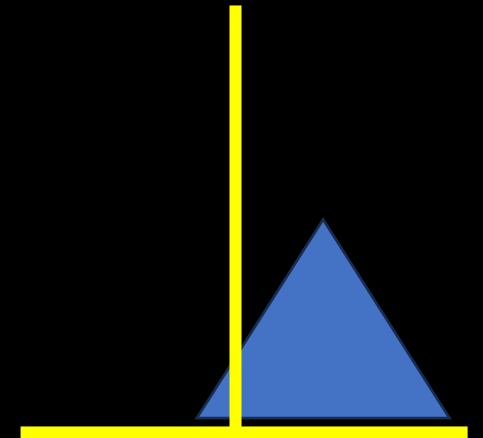
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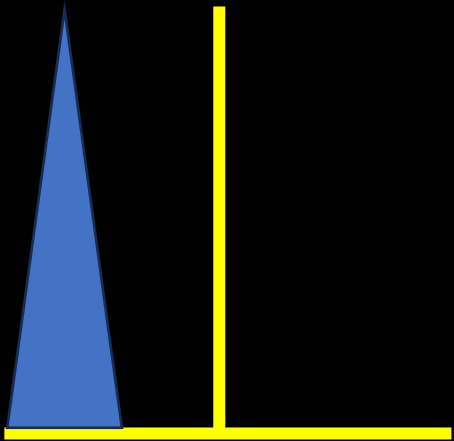
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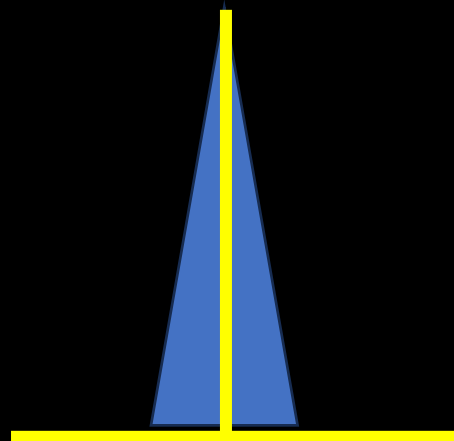
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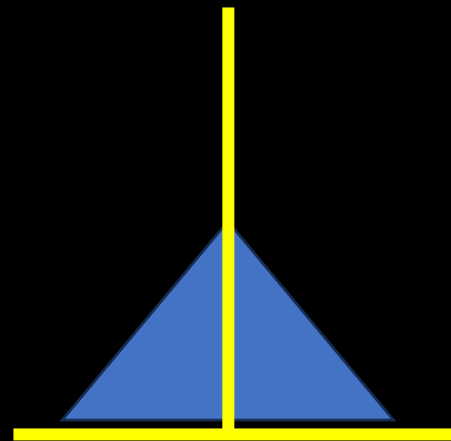
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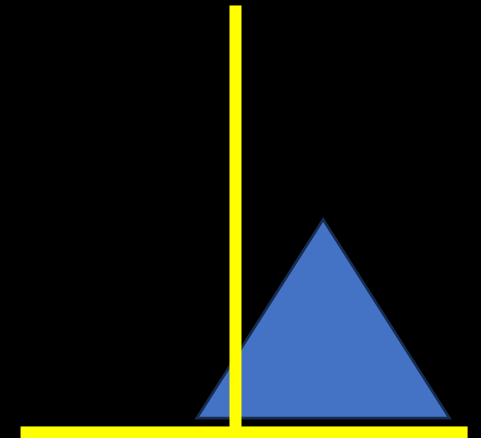
**Preciso
no exacto**



**Preciso
exacto**



**No Preciso
Exacto**



**No Preciso
No Exacto**



«Nunca soñé con el éxito,
trabajé para ello». – Estée
Lauder