Escuela Secundaria Oficial No. 0076.

*"Lic. Benito Juárez"*

Turno Vespertino.

Examen de Matemáticas III

**Profr. Luis Armando Jacinto De la Luz.**

| Nombre del alumno: | |
|---|---|

Instrucción: Anota lo que se solicita en cada uno de los apartados.

- **Haciendo uso de la fórmula general, contesta en los cuadros faltantes.**

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$5x^2 - 9x + 4 = 0$$

$a =$ b $=$ $c =$

$$x = \frac{-(\quad) \pm \sqrt{(\quad)^2 - 4(\quad)(\quad)}}{2(\quad)}$$

$$x = \frac{\pm\sqrt{\quad - \quad}}{\square}$$

$$x = \frac{\pm\sqrt{\quad}}{\square}$$

$$x = \frac{\pm}{\square}$$

$$x_1 = \frac{9+1}{10}$$

$$x_1 = \frac{10}{10} =$$

$$x_2 = \frac{9-1}{10}$$

$$x_2 = \frac{8}{10} = \frac{\square}{\square}$$

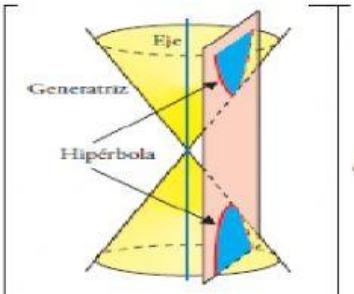
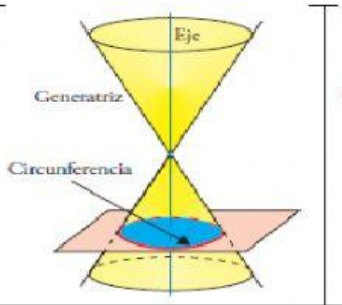
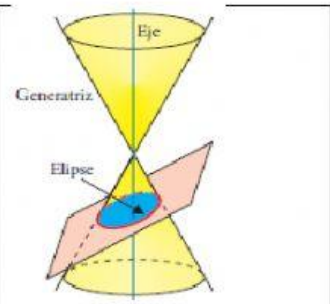
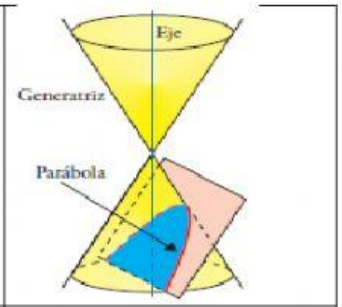
LIVEWORKSHEETS

- **Obtener la media aritmética y moda del siguiente conjunto de datos (solo el resultado final).**

**8 , 9 , 7 , 5 , 6 , 7 , 8 , 9 , 10 , 8**

| Media aritmética | Mediana | Moda |
|---|---|---|
| | | |

- **Escribe el nombre del corte que se le hace a un cono o cilindro.**

| | | | |
|---|---|---|---|
|  |  |  |  |
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| | | | |
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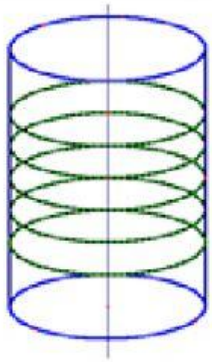
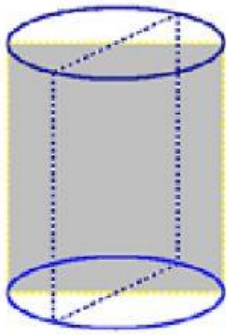
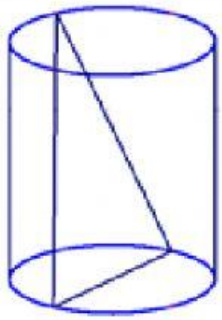
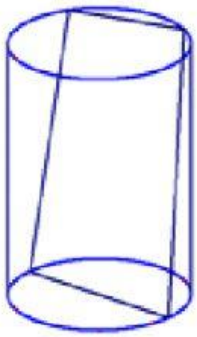
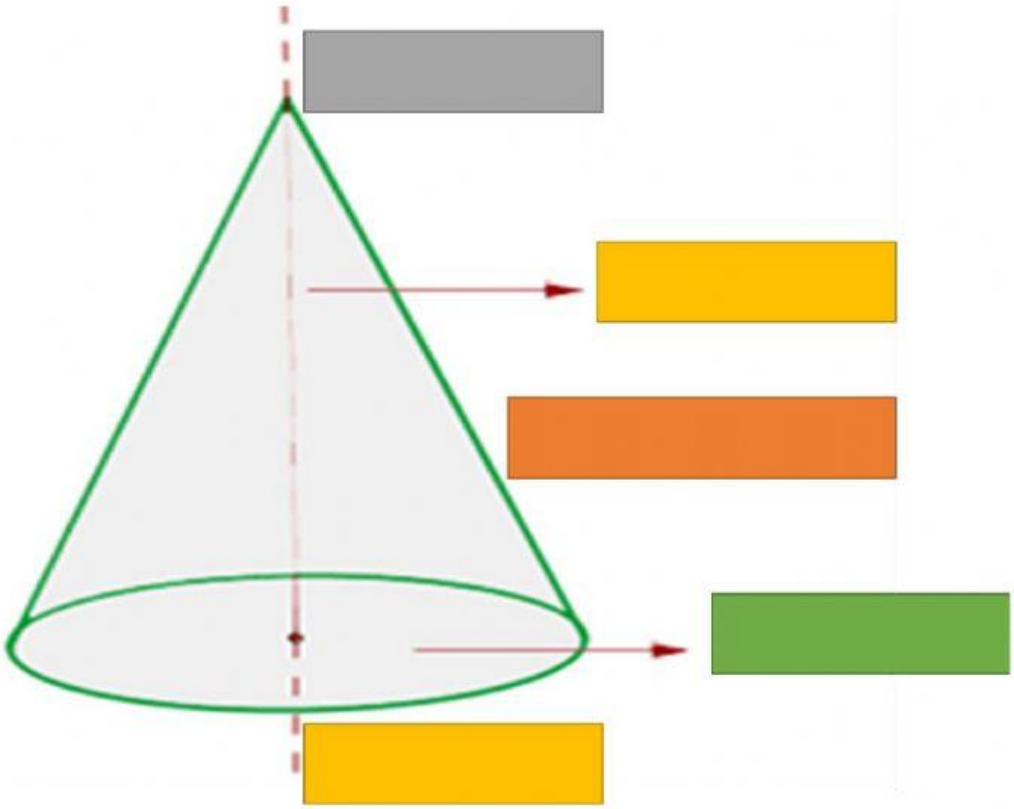
|  |  |  |  |
| | | | |

- **Haciendo uso de la fórmula de cortes de un cilindro, llenar la siguiente tabla.**

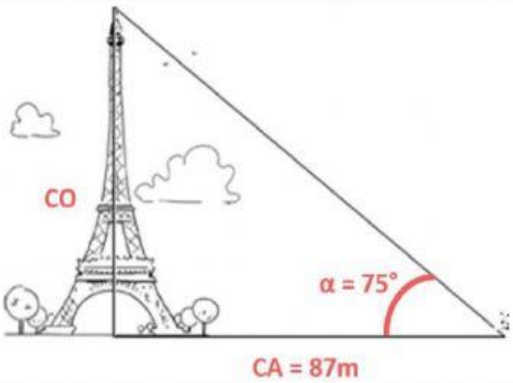
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Radio | 2 cm | cm | cm | cm | cm | 0.4 cm | 1.2 cm |
| Altura | 10 cm | 9 cm | 7 cm | 5 cm | 3 cm | cm | cm |

LIVEWORKSHEETS

- **Escribir las partes de un cono.**



- **Haciendo uso de la tabla de razones trigonométricas, contesta cada uno de los ejercicios (ocupar dos decimales para el resultado final).**



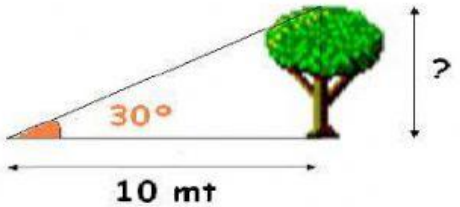

$$Tan \qquad = \frac{CO}{\quad}$$

$$= \frac{CO}{87}$$

$$(\qquad)(\qquad) = CO$$

$$CO = \qquad m$$

LIVEWORKSHEETS




Observa atentamente la figura y los datos que se te proporcionan. Lo que se desea saber es:

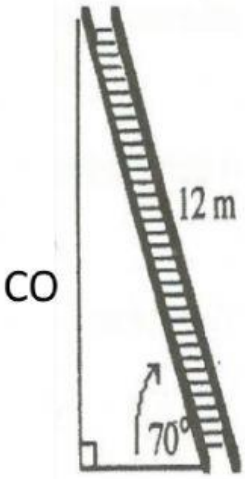
¿Cuál es la altura en metros del árbol?

$$Tan \quad = \frac{CO}{\quad}$$

$$= \frac{CO}{10}$$

$$(\quad)(\quad) = CO$$

$$CO = \quad m$$



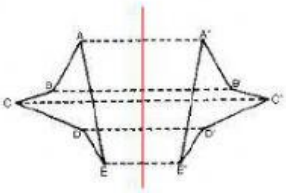
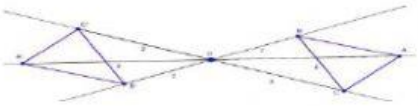
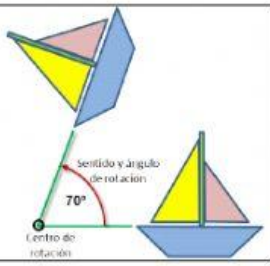

$$Sin \quad = \frac{CO}{\quad}$$

$$= \frac{CO}{12}$$

$$(\quad)(\quad) = CO$$

$$CO = \quad m$$

- **Escribe en el recuadro a qué tipo de simetría hace referencia cada imagen (Axial, Rotación, traslación, central).**

| | | | |
|---|---|---|---|
|  |  |   | |
| | | | |

- Completa cada una de las siguientes frases.

1) Al girar un triángulo rectángulo se forma un: _____.

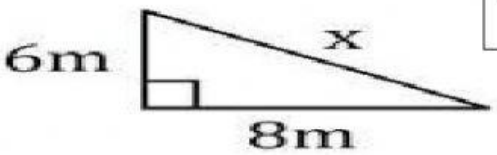
2) Al girar un semicírculo se forma una: _____.

3) Al girar un rectángulo se forma un: _____.

LIVEWORKSHEETS

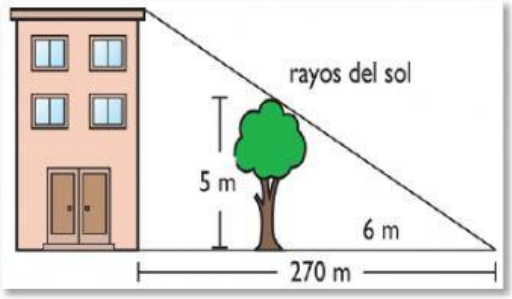
- **Haciendo uso del Teorema de Pitágoras, determinar el valor faltante del siguiente triángulo.**

¿Cuál es el valor de "x"?




x= m

- **Haciendo uso del Teorema de Tales, determinar el valor faltante.**




$$(x)(\quad)=(\quad)(\quad)$$

$$6x=$$

$$\frac{x}{}=\frac{}{6}$$

$$x=\frac{}{6}$$

$$x= \quad m$$

- **Resuelve el siguiente Binomio al cuadrado.**

$$(6m^3+4t^7)^2=$$

$$(\quad m^3)^2+2(\quad m^3)(\quad t^7)+(\quad t^7)^2$$

$$m \quad + \quad m \quad t \quad + \quad t$$

LIVEWORKSHEETS