



PRACTICANDO POTENCIAS Y RADICACION

NOMBRE Y APELLIDO: _____ GRADO 8°

1. CALCULA Y COMPLETA:

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|---------------|---------------------------------|---------------|---------------------------------|
| • $(-12)^3 =$ | $\Rightarrow \sqrt[3]{-1728} =$ | • $(-8)^3 =$ | $\Rightarrow \sqrt[3]{-512} =$ |
| • $5^4 =$ | $\Rightarrow \sqrt[4]{625} =$ | • $(-3)^5 =$ | $\Rightarrow \sqrt[5]{-243} =$ |
| • $(-2)^7 =$ | $\Rightarrow \sqrt[7]{-128} =$ | • $10^4 =$ | $\Rightarrow \sqrt[4]{10000} =$ |
| • $6^4 =$ | $\Rightarrow \sqrt[4]{1296} =$ | • $7^3 =$ | $\Rightarrow \sqrt[3]{343} =$ |
| • $(-18)^3 =$ | $\Rightarrow \sqrt[3]{-5832} =$ | • $(-16)^3 =$ | $\Rightarrow \sqrt[3]{-4096} =$ |

2. RELACIONA:

$(-1)^5$	17^2	20^4	$(-13)^3$	$(-4)^4$
-2197	160000	256	-1	289

3. COMPLETA.

- | | | |
|-----------------------------|-----------------------------|--------------------------|
| • $\sqrt[3]{-8} =$ | • $\sqrt[8]{\quad} = \pm 2$ | • $\sqrt{-25} =$ |
| • $\sqrt[5]{\quad} = -1$ | • $\sqrt{389} =$ | • $\sqrt{324} =$ |
| • $\sqrt[4]{10000} =$ | • $\sqrt[3]{\quad} = -6$ | • $\sqrt{-3375} = -15$ |
| • $\sqrt[6]{\quad} = \pm 2$ | • $\sqrt[4]{-81} =$ | • $\sqrt{-100000} = -10$ |
| • $\sqrt{225} =$ | • $\sqrt[3]{\quad} = 19$ | • $\sqrt[7]{\quad} = 1$ |

4. UNE CON UNA LINEA CADA OPERACIÓN SEGÚN SU RESPUESTA

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|----------------------|---------------------|
| ○ $(-1)^6 =$ | ➤ 1 |
| ○ $\sqrt[3]{-125} =$ | ➤ 100 |
| ○ $2^4 =$ | ➤ 256 |
| ○ $\sqrt{-25} =$ | ➤ 12 |
| ○ $10^2 =$ | ➤ -3200000 |
| ○ $\sqrt[4]{-16} =$ | ➤ + ó -16 |
| ○ $(-7)^3 =$ | ➤ -5 |
| ○ $\sqrt[4]{81} =$ | ➤ No tiene solución |
| ○ $(-2)^6 =$ | ➤ + ó -3 |
| ○ $\sqrt[6]{729} =$ | ➤ 1331 |
| ○ $16^2 =$ | ➤ -343 |
| ○ $\sqrt[3]{1728} =$ | ➤ + ó -3 |
| ○ $(-20)^5 =$ | ➤ + ó -8 |
| ○ $\sqrt[4]{4096} =$ | ➤ No tiene solución |
| ○ $11^3 =$ | ➤ 64 |