

# Potenciación y radicación en Q

1) Resolver las siguientes potencias

a.  $\left(-\frac{5}{9}\right)^2 = \text{---}$

f.  $(-5)^{-3} = \text{---}$

k.  $\left(\frac{1}{4}\right)^{-3} = \text{---}$

b.  $\left(-\frac{4}{7}\right)^{-3} = \text{---}$

g.  $(-4)^{-2} = \text{---}$

l.  $\left(-\frac{2}{7}\right)^{-2} = \text{---}$

c.  $\left(-\frac{1}{3}\right)^5 = \text{---}$

h.  $-10^{-2} = \text{---}$

m.  $\left(-\frac{5}{6}\right)^{-3} = \text{---}$

d.  $\left(-\frac{1}{2}\right)^6 = \text{---}$

i.  $-3^{-3} = \text{---}$

n.  $\left(-\frac{1}{3}\right)^{-4} = \text{---}$

e.  $6^{-2} = \text{---}$

j.  $\left(\frac{3}{8}\right)^{-2} = \text{---}$

o.  $\left(-\frac{2}{3}\right)^{-5} = \text{---}$

2) Realizar las siguientes raíces

a.  $\sqrt[3]{\frac{8}{125}} = \text{---}$

c.  $\sqrt[3]{-\frac{1}{216}} = \text{---}$

e.  $\sqrt[4]{\frac{81}{256}} = \text{---}$

b.  $\sqrt{\frac{81}{16}} = \text{---}$

d.  $\sqrt{\frac{1}{144}} = \text{---}$

f.  $\sqrt[5]{-\frac{32}{243}} = \text{---}$

3) Colocar V o F según corresponda

a.  $\left(\frac{2}{5}\right)^{-1} = \frac{2}{5}$

☐

c.  $\left(-\frac{1}{10}\right)^{-2} = 100$

☐

e.  $\left(\frac{4}{3}\right)^{-1} = -\frac{4}{3}$

☐

b.  $\frac{3^{-1}}{2} = \frac{2}{3}$

☐

d.  $(-3)^{-1} = -3$

☐

f.  $-\frac{1}{6^{-2}} = -36$

☐

4) Completar los casilleros vacíos

a.  $\sqrt{\frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}} = \frac{1}{11}$

d.  $\left(\frac{2}{3}\right)^{\boxed{\phantom{00}}} = \frac{9}{4}$

g.  $\sqrt[3]{\frac{1}{\boxed{\phantom{000}}}} = \frac{1}{2}$

b.  $\sqrt[3]{\frac{\boxed{\phantom{000}}}{27}} = \frac{4}{\boxed{\phantom{000}}}$

e.  $2^{\boxed{\phantom{00}}} = \frac{1}{64}$

h.  $\left(\frac{1}{\boxed{\phantom{000}}}\right)^{-2} = 169$

c.  $\boxed{\phantom{000}}^{-2} = \frac{1}{100}$

f.  $\left(\frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}\right)^{-3} = 27$

i.  $\boxed{\phantom{000}}^{\boxed{\phantom{00}}} = \frac{1}{36}$