



Nom : \_\_\_\_\_

**Les lois des exposants**

$(-3)^2 = -3 \times -3 = 9$        $-3^2 = -(3 \times 3) = -9$

1- Complète les égalités.

a)  $(-2)^4 =$  \_\_\_\_\_  $=$  \_\_\_\_\_      d)  $-2^4 =$  \_\_\_\_\_  $=$  \_\_\_\_\_

b)  $-3^3 =$  \_\_\_\_\_  $=$  \_\_\_\_\_      e)  $-1^4 =$  \_\_\_\_\_  $=$  \_\_\_\_\_

c)  $(-5)^2 =$  \_\_\_\_\_  $=$  \_\_\_\_\_      g)  $(-4)^3 =$  \_\_\_\_\_  $=$  \_\_\_\_\_

2- Calcule le résultat des chaînes d'opérations suivantes. Laisse toutes les traces de tes démarches.

a)  $-9 + (-3)^2 - 5 =$

---

---

---

---

---

b)  $7 - (-3) + (-2)^2 =$

---

---

---

---

---

c)  $-15 \div (-3) - 4 \times (-3)^1 =$

---

---

---

---

---

---

d)  $10 - 7^2 + (4 - 9) =$

---

---

---

---

---

---

e)  $25 - (+10) - 8^0 =$

---

---

---

---

---

---

f)  $4 - (+5) + (-2)^2 - 7 =$

---

---

---

---

---

---