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

**Les lois des exposants**

**(-3)2 = -3 x (-3) = 9 -32 = - (3 x 3) = -9**

1. Complète les égalités.
2. (-2) 4 = \_\_-2 × (-2) × (-2) × (-2)\_\_\_ = \_\_16\_\_ d) -2 4 = \_\_\_\_─ ( 2 × 2 × 2 × 2)\_\_\_\_ = \_-16\_\_
3. -3 3 = \_\_\_\_─ ( 3 × 3 × 3)\_\_\_\_\_\_\_\_ = \_-27\_\_ e) -1 4 = \_\_\_\_─ ( 1 × 1 × 1 × 1)\_\_\_\_ = \_\_-1\_\_
4. (-5) 2  = \_\_\_\_-5 × (-5) \_\_\_\_\_\_\_\_\_\_= \_\_25\_\_ g) (-4) 3 = \_\_\_\_-4 × (-4) × (-4) \_\_\_\_\_ = \_\_-64\_
5. Calcule le résultat des chaînes d’opérations suivantes. Laisse toutes les traces de tes démarches.

|  |  |  |
| --- | --- | --- |
| 1. -9 + (-3)2─ 5 = |  | 1. 7 – (-3) + (-2)2 = |
| -9 + 9 ─ 5 = |  | 7 – (-3) + 4 = |
| 0 – 5 = |  | 10 + 4 = |
| -5 |  | 14 |

|  |  |  |
| --- | --- | --- |
| 1. -15 ÷ (-3) ─ 4 x (-3)1 = |  | 1. 10 – 72 + (4 – 9) = |
| -15 ÷ (-3) ─ 4 x (-3) = |  | 10 – 72 + (-5) = |
| 5 ─ 4 x (-3) = |  | 10 – 49 + (-5) = |
| 5 – (-12) |  | -39 + (-5) = |
| 17 |  | -44 |

|  |  |  |
| --- | --- | --- |
| 1. 25 – (+10) ─ 80 = |  | 1. 4 ─ (+5) + (-2)2 – 7 = |
| 25 – (+10) ─ 1 = |  | 4 ─ (+5) + 4 – 7 = |
| 15 ─ 1 = |  | -1 + 4 – 7 = |
| 14 |  | 3 – 7 = |
|  |  | -4 |