

Semana 2

Multiplicaciones y divisiones de potencias

$$1) (x)^4 (x)^7 = x^4 + x^7 = x^{11}$$

$$2) (6^4) (6^{-4}) = 6^4 \times 6^{-4} = \frac{6^4 \times 1}{6^4} = \frac{1296 \times 1}{1296} = 1$$

$$3) (56^4) (56^5) =$$
$$15 \times 56 \times 6^4 \times 6^5 =$$

$$25 \times 6^4 \times 6^5 = 25 \times 6^9$$

$$4) (7^4) (7^2) = 7^4 \times 7^2 = 7^6$$
$$117,649$$

$$5) (-3)^2 (4)^2 (-5)^2 =$$

$$3^2 \times 4^2 \times (-5)^2 = 144 \times 25 = 3600$$

$$9 \times 16 \times 25$$

$$6) \frac{a^6}{a^3} = a^3$$

$$7) \frac{5^{10}}{5^6} = 9,765,625 \div 5^6 =$$

$$9,765,625 \div 15,625 = 625$$

$$8) \frac{a^4}{39} = 6561 \div 3^4$$

$$6561 \div 81 = 81$$

$$9) \frac{79}{77} = 40353607 \div 7^7$$

$$40,353,607 \div 823,543 = 49$$

$$10) \frac{15^5}{5^5} = 759,375 \div 5^5$$

$$759,375 \div 3125 = 243$$