EXPONENTS AND POWERS (BASIC)

Q1. Simplify :

   a. $(-5)^5 / (5)^7$ b. $(4)^{-6} \times (-4)^2$

Q2. Find 'p' such that $(-6)^{r+2} \times (-6)^3 = (-6)^9$.

Q3. Find the value of the following :

   a. $[5^0 + (1/2)^2] \times (2)^2$ b. $(4/7)^{-3}$

Q4. Simplify the following :

        $(1/6)^2 \times (2/3)^3 / (4/5)^4 \times (12/45)^0$.

Q5. Find the value of t in the following :

        $(27 \times t^{-3}) / (6^2 \times t^{-5}) = 48$.

Q6. Express the following in the standard form :

   a. 0.000407   b. 370000

Q7. Express the following in their usual form :

   a. 3.414567×10^8 b. 0.079×10^{-3}

Q8. In a stack there are 5 books each of thickness 25mm and 5 paper sheets each of thickness 0.0145mm. What is the thickness of the steel?