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MM 20

Time 45 min

1 Mark Each

1. Find multiplicative inverse of 3^{-3}
2. Write in expanded form using exponents 3.4567
3. Simplify $(-5)^3 \times (-5)^{11}$ and write answer in exponential form.
4. Evaluate $3^{(-5)} \div 3^{(-7)}$
5. Express 9^{-2} with a power with base 3.

2 Marks Each

6. Find n, $(-5)^n \times (-5)^3 = (-5)^{15}$
7. Evaluate $\left(\frac{3}{3^3}\right)^3$
8. Write 0.00000000034 in standard form.
9. Write 9870000000000 in standard form.
10. Express 5.03×10^{10} in usual form.
11. Express 7.73×10^{-10} in usual form.

3 Marks Each

9. Find n, $(-3)^{2n} \times (-3)^3 = (-9)^{15}$

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