Exponential Equation. (Write your answer in the given box) **Class-10**

1. If $p^x = p^3$, find the value of x. x =
2. If $2^a = \frac{1}{2^5}$, find the value of a. a =
3. If $5^x = 1$, find the value of x. x =
4. Solve for x: $\frac{1}{3^x} = 81$. x =
5. Solve for t: $a^{3-2t} = b^{2t-3}$ t =
6. Solve for x: $3^x \times 5^{x-3} = 405$ x =
7. Solve for x: $2^{3x-5} \times a^{x-2} = 2^{x-3} \times a^{-x}$ x =
8. Solve for y: $\left(\frac{\sqrt[3]{4}}{2}\right)^{2y-1} = \frac{1}{8}$ y =
9. Solve for x: $4^{x+1} - 2^{2x} = 192$ x =
10. Solve for x: $3^{x+1} + \frac{3^{x+1}}{6} = \frac{7}{54}$ x =
11. Solve for x: $4^{x-1} - 2^{2x-3} = \frac{1}{32}$ x =
12. Solve for x: $3^{x+2} + \frac{2}{3^{1-x}} = \frac{29}{9}$ x =
13. If $a^x \div a^2 = 1$, find the value of x x =
14. Solve for x: $2^{x^2} = 16$ x =
15. Solve for x: $5^{2x-1} = 1$ x =
16. Solve for x: $2^{x-1} = \left(\sqrt{2}\right)^x$ x =
17. Solve for x: $2^{x+2} + 2^x = 5$ x =

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