



SACRED HEART SCHOOL

Jhumri Telaiya, Koderma

ASSIGNMENT (2020– 2021)

Class - IX

Subject – MATHEMATICS

Assignment questions based upon online class

1. Simplify the following:

i) $625^{\frac{1}{4}}$ ii) $32^{\frac{1}{5}}$ iii) $125^{\frac{2}{3}}$ iii) $81^{\frac{-3}{4}}$ iv) $125^{\frac{-1}{3}}$

v) $\sqrt[4]{\sqrt[3]{2^2}}$ vi) $(16)^{0.16} \times (16)^{0.09}$ vii) $\frac{8^{\frac{1}{3}} \times 16^{\frac{1}{3}}}{32^{\frac{-1}{3}}}$

viii) $(256)^{(-4)^{\frac{-3}{2}}}$ ix) $\frac{25^{\frac{3}{2}} \times 243^{\frac{3}{5}}}{16^{\frac{5}{4}} \times 8^{\frac{4}{3}}}$ x) $\frac{16 \times 2^{n+1} - 4 \times 2^n}{16 \times 2^{n+2} - 2 \times 2^{n+2}}$