

August 8<sup>th</sup>

$$16^5 + 16^5 + 16^5 + 16^5 + 16^5 + 16^5 + 16^5 + 16^5 = 2^x$$

$$2^x = 8 \times 16^5$$

Hence

$$2^x = 2^3 \times (2^4)^5 = 2^{23}$$

Hence

$$\mathbf{x = 23}$$