Reciprocals

A) Find the reciprocal of the following in exponential form with the positive exponent.

1) $\left(\dfrac{1}{9}\right)^2$

2) $\left(\dfrac{5}{8}\right)^{-3}$

3) 6^7

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B) Find the reciprocal of the following in exponential form with the negative exponent.

1) 7^9

2) $\left(-\dfrac{2}{5}\right)^5$

3) $\left(\dfrac{1}{4}\right)^{-6}$

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C) 1) If $x \cdot \left(\dfrac{1}{8}\right)^3 = 1$, find   ential form with the positive exponent.

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2) What is the multipl   exponential form with the negative expor

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3) Check whether $\left(\dfrac{6}{7}\right)$

_____

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D) 1) Which of the following is the multiplicative inverse of $\left(\dfrac{4}{3}\right)^{-2}$?

i) $\left(\dfrac{4}{3}\right)^2$

ii) $\left(\dfrac{2}{3}\right)^{-2}$

iii) $\left(\dfrac{3}{2}\right)^2$

iv) $\left(\dfrac{3}{4}\right)^2$

2) What is the reciprocal of 5^6?

i) 6^5

ii) $\left(\dfrac{1}{5}\right)^{-6}$

iii) $\left(\dfrac{1}{5}\right)^6$

iv) 6^{-5}