Reciprocals

Sheet 3

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

1)
$$\left(\frac{3}{8}\right)^{-3}$$

3)
$$\left(\frac{5}{4}\right)^{6}$$

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

2)
$$\left(\frac{1}{3}\right)^{-4}$$

C) 1) Check whether $\left(\frac{2}{7}\right)^{1}$

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2) If $x \cdot \left(\frac{2}{3}\right)^3 = 8$, find positive exponent.

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3) What is the multiple the negative expore

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ential form with the

exponential form with

D) 1) Which of the following is the multiplicative inverse of 5^{-8} ?

i) $\frac{1}{5}$

- ii) $\left(\frac{1}{5}\right)^8$
- iii) 8⁵

iv) 5⁸

2) What is the reciprocal of $\left(-\frac{1}{6}\right)^9$?

- i) -6⁹
- ii) $\left(\frac{1}{6}\right)^{-9}$
- iii) $\left(\frac{1}{6}\right)^{9}$

iv) $\frac{1}{9}$