

# Base and Exponent

A) Identify the base and exponent in each of the following.

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

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

2)  $(-11.6)^{-2}$

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

3)  $\left(-\frac{9}{7}\right)^5$

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

4)  $(-t)^8$

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

5)  $\left(\frac{1}{4}\right)^{-6}$

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

6)  $(x + 7)^4$

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

B) Write the numerals in

S.No	Base	Exponential Form
1)	$\frac{8}{5}$	
2)	-1	
3)	$-\frac{2}{7}$	
4)	-7	

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C) 1) Which of the following has 6 as the exponent?

i)  $\left(\frac{5}{6}\right)^7$

ii)  $\left(\frac{v}{3}\right)^6$

iii)  $(v + 5)^{-7}$

iv)  $6^{-9}$

2) Which of the following has  $\frac{b}{2}$  as the base?

i)  $\left(\frac{b}{5}\right)^{-3}$

ii)  $b^2$

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

iv)  $\left(\frac{b}{2}\right)^{-8}$