

## Chapter 9

### LOGORATHMS

#### Exercise 9.1

**Q.1** Convert the following to logarithmic form:

$$(i) 5^2 = 25$$

$$(ii) a^2 = 64$$

$$(iii) 7^x = 100$$

$$(iv) \log_3 \frac{1}{3} = -1$$

$$(v) 9^0 = 1$$

$$(vi) 3^{-2} = \frac{1}{9}$$

$$(vii) \log_5 34 = \frac{5}{2}$$

$$(viii) \log_2 (0.001) = -3$$

**Ans.**

$$(i) 5^2 = 25 \Rightarrow \log_5 25 = 2$$

$$(ii) a^2 = 64 \Rightarrow \log_a 64 = 2$$

$$(iii) 7^x = 100 \Rightarrow \log_7 100 = x$$

$$(iv) 9^0 = 1 \Rightarrow \log_9 1 = 0$$

$$(v) 6^1 = 6 \Rightarrow \log_6 6 = 1$$

$$(vi) 3^{-2} = \frac{1}{9} \Rightarrow \log_3 \frac{1}{9} = -2$$

$$(vii) 10^{-2} = 0.01 \Rightarrow \log_{10} 0.01 = -2$$

$$(viii) (81)^{\frac{1}{4}} = 27 \Rightarrow \log_{81} 27 = \frac{1}{4}$$

**Q.2** Convert the following into exponential form:

$$(i) \log_2 32 = 5$$

$$(ii) \log_3 81 = 4$$

$$(iii) \log_3 \frac{1}{3} = -1$$

$$(iv) \log_5 4 = \frac{2}{3}$$

$$(v) \log_2 32 = \frac{5}{3}$$

$$(vi) \log_{10} (0.001) = -3$$

$$(vii) \log_2 0.25 = -2$$

$$(viii) \log_a \left( \frac{1}{a} \right) = -1$$

**Ans.** (i)  $\log_2 32 = 5 \Rightarrow 2^5 = 32$

# Ncert Solutions Math 9th Logarithms

**Munish Sethi**



**Ncert Solutions Math 9th Logarithms:**

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