



Name :

Date : **4/10/2020**

Select the correct answer

1) Express each logarithm in terms of $\log 5$ and $\log 3$.

$$\log 75$$

A) $\log 3 + 5 \log 2$

B) $\log 3 + 2 \log 5$

C) $\log 15 + \log 5$

2) $\log_5 \sqrt[4]{25}$

A) $\frac{1}{2}$

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

C) 8

3) Expand $\ln \frac{x^7}{\sqrt[3]{x+2}}$

A) $\ln x^7 + \ln (x+2)^{\frac{1}{3}}$

B) $7 \ln x + \frac{1}{3} \ln (x+2)$

C) $7 \ln x - \frac{1}{3} \ln (x+2)$

5) To what is $2 \log_5 12 - \log_5 8 - 2 \log_5 3$ equal?

A $\log_5 2$

C $\log_5 0.5$

B $\log_5 3$

D 1