MARKS

NAME:

CLASS:

SOLVING LOGARITHM

1. Solve the equation $\log_8(x+2) = \frac{5}{3} - \log_8(10-x)$.

A. $x=2, x=4$ B. $x=2, x=6$ C. $x=4, x=6$ D. $x=4, x=8$

2. Solve the equation $2\log_x 3 - \log_3 \sqrt{x} = \frac{3}{2}$

A. $x=2, x=3$ B. $x=3, x=6$ C. $x=3, x=\frac{1}{81}$ D. $x=4, x=\frac{2}{21}$

3. Find the exact values of x that satisfy the equation $\log_9 x + \log_x 9 = \frac{5}{2}$

A. $x=3, x=21$ B. $x=2, x=81$ C. $x=3, x=8$ D. $x=3, x=81$

4. Solve the equation $3e^{2\ln x} = 28 - 5x$

A. $x=\frac{7}{3}$ B. $x=\frac{3}{7}$ C. $x=\frac{7}{13}$ D. $x=4, x=8$

5. Solve $\frac{4}{3}\log_x 2 + \log_2 \sqrt{x} - \frac{5}{3} = 0$

A. $x=2, x=4$ B. $x=4, x=2^{\frac{4}{3}}$ C. $x=2, x=2^{\frac{2}{3}}$ D. $x=3, x=81$

6. Solve $\ln x^3 - \frac{2}{\ln x} = e^{\ln 5}$

A. $x=e^2, x=e^{-\frac{1}{3}}$ B. $x=e^3, x=e^{-\frac{1}{3}}$ C. $x=e^2, x=e^{-\frac{2}{3}}$ D. $x=e^2, x=e^{-\frac{1}{2}}$

CHOOSE YOUR ANSWER.

1	A. ○	B. ○	C. ○	D. ○	4	A. ○	B. ○	C. ○	D. ○
2	A. ○	B. ○	C. ○	D. ○	5	A. ○	B. ○	C. ○	D. ○
3	A. ○	B. ○	C. ○	D. ○	6	A. ○	B. ○	C. ○	D. ○

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LIVEWORKSHEETS