Name

Logarithms - Change of Base - To Fraction

1 Convert the given logarithm to the equivalent in base 10

$\log_4 4$

A $\frac{log_4 4}{log_4 10}$

B $\frac{log_4 10}{log_4 4}$

C $\frac{log_1 04}{log_1 04}$

2 Convert the given logarithm to the equivalent in base 5

$\log_5 13$

A $\frac{log_5 13}{log_5 5}$

B $\frac{log_5 5}{log_5 13}$

C $\frac{log_1 35}{log_1 35}$

3 Convert the given logarithm to the equivalent in base 6

$\log_7 7$

A $\frac{log_7 6}{log_7 7}$

B $\frac{log_6 7}{log_6 7}$

C $\frac{log_7 7}{log_7 6}$

4 Convert the given logarithm to the equivalent in base 10

$\log_7 2$

A $\frac{log_7 2}{log_7 10}$

B $\frac{log_2 10}{log_2 7}$

C $\frac{log_1 02}{log_1 07}$

D $\frac{log_1 07}{log_1 02}$

E $\frac{log_2 7}{log_2 10}$

5 Convert the given logarithm to the equivalent in base 4

$\log_3 10$

A $\frac{log_4 10}{log_4 3}$

B $\frac{log_3 10}{log_3 4}$

C $\frac{log_1 04}{log_1 03}$

D $\frac{log_1 03}{log_1 04}$

6 Convert the given logarithm to the equivalent in base 3

$\log_8 14$

A $\frac{log_8 14}{log_8 3}$

B $\frac{log_1 48}{log_1 43}$

C $\frac{log_3 14}{log_3 8}$

7 Convert the given logarithm to the equivalent in base 5

$\log_6 4$

A $\frac{log_5 6}{log_5 4}$

B $\frac{log_5 4}{log_5 6}$

C $\frac{log_6 4}{log_6 5}$

8 Convert the given logarithm to the equivalent in base 4

$\log_6 9$

A $\frac{log_4 9}{log_4 6}$

B $\frac{log_6 9}{log_6 4}$

C $\frac{log_9 4}{log_9 6}$

D $\frac{log_4 6}{log_4 9}$

E $\frac{log_9 6}{log_9 4}$