

## Logarithmic Expression

Sheet 4

For the given values, express each expression in terms of  $u$ ,  $v$ ,  $w$ .

$$u = \log 9, \quad v = \log 7, \quad w = \log 14$$

1)  $\log 2$

2)  $\log 63$

Answer

3)  $\log 343$

Answer

For the given values

$$f = \log 15, \quad g = \log 2$$

5)  $\log 40$

Answer

7)  $\log 75$

Answer

8)  $\log 100$

Answer

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**Answer key****Logarithmic Expression**

Sheet 4

For the given values, express each expression in terms of  $u$ ,  $v$ ,  $w$ .

$u = \log 9, \quad v = \log 7, \quad w = \log 14$

1)  $\log 2$

Answer

$u + v$

2)  $\log 63$

3)  $\log 343$

Answer

$2u + w - v$

For the given values

$f = \log 15, \quad g = \log 3, \quad h = \log 5$

5)  $\log 40$

Answer

$2h + g$

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Answer

$g + h$

7)  $\log 75$

Answer

$f + g - h$

8)  $\log 100$

Answer

$2g$

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