

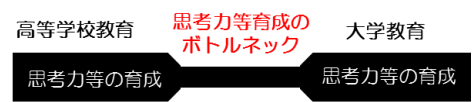
30 9 21

30 9 22

30 12 15

30 12 2

3 3 1 2
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16

$\log_{10} 2 = 0.3010$ $\log_{10} 3 = 0.4771$ (1) (2)

(1)
 $\log_{10} 5$ $\log_{10} 6$

(2) A $\log_{10} 7$

7^2	49	48					
			$\log_{10} 7^2$	$\log_{10} 48$			
			$\log_{10} 48$	$\log_{10} 2^4$	3	$4\log_{10} 2$	$\log_{10} 3$
			$2\log_{10} 7$	1.6811			1.6811
			$\log_{10} 7$	1.6811	2	0.84055	

B A

7^4	2401	2400					
			$\log_{10} 7^4$	$\log_{10} 2400$			
			$\log_{10} 2400$	$\log_{10} 2^3$	3	10^2	$3\log_{10} 2$
			$4\log_{10} 7$	3.3801		$\log_{10} 3$	2
			$\log_{10} 7$	3.3801	4	0.845025	3.3801

$\log_{10} 7$ A B

(1)

(2)

(2)

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(1)

(2)

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B

A

(1) 0.6020

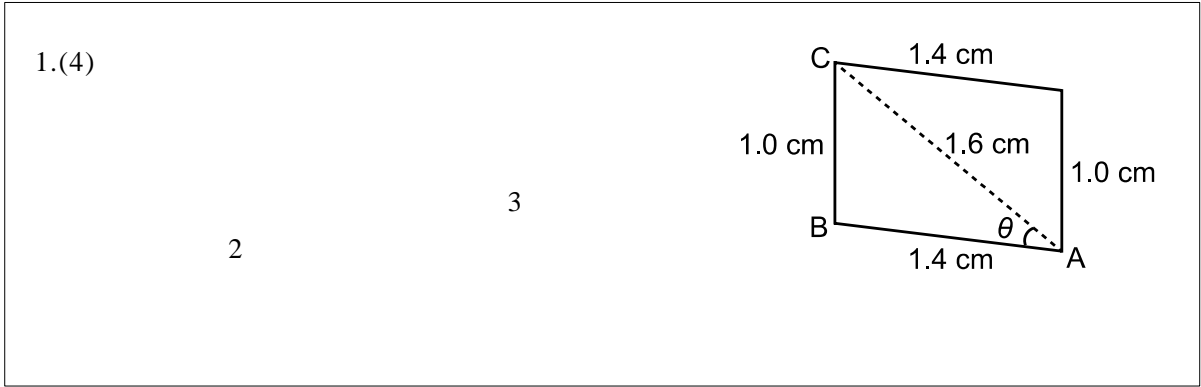
0.6990

0.7781

5

(2) 30

y x y x	$y = \log_{10} x$ x _____ $x = 7^4$	x $\log_{10} 7$ $\log_{10} 7$	
$\log_{10} \frac{48}{49}$	$\log_{10} 49 - \log_{10} 48 = \log_{10} \left(1 + \frac{1}{48} \right)$		
$\log_{10} \frac{2401}{2400}$	$\log_{10} 7^4 - \log_{10} 2400 = \log_{10} \left(1 + \frac{1}{2400} \right)$		_____
$\frac{1}{2400} < \frac{1}{48}$		_____	_____



3

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2

1.(1)		
1.(2)		3 MHC
1.(3)		
1.(4)		
2.(1)		い

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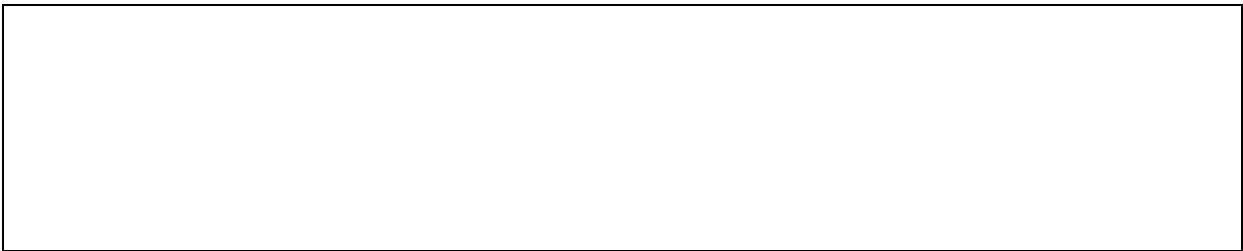
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