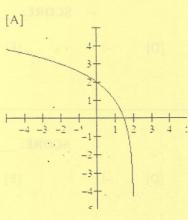
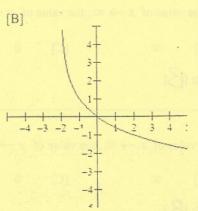
NO CALCULATORS ALLOWED

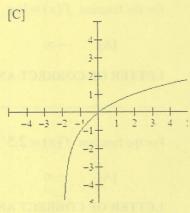
WRITE THE LETTER OF THE CORRECT ANSWER IN THE SPACE PROVIDED DO NOT CIRCLE THE ANSWERS

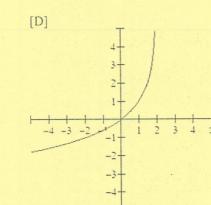
The graph of $f(x) = \log_2(-(x-2)) - 1$ is

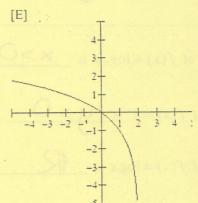
SCORE: / 6 POINTS











LETTER OF CORRECT ANSWER: []

For the function $f(x) = \left(\frac{2}{5}\right)^x$, as the value of $x \to \infty$, the value of $y \to \infty$

SCORE: ___/3 POINTS

[A] -∞

[B] ∞

[C] 0

[D] -1

[E]

LETTER OF CORRECT ANSWER:

The graph of $f(x) = -5^{x-2} + 4$ has an asymptote at

SCORE: ___/3 POINTS

[A] x = 4

[B] x = -4

[C] y = 2

y = 2 [D] y = 4 [E]

[E] x = -1

[A] $-\infty$ [B] ∞

[D] -1

[E] 1

LETTER OF CORRECT ANSWER: [A]

The graph of $f(x) = -\log_4(x-3) + 6$ has an asymptote at

SCORE: ___/3 POINTS

[B] x = -6

[C] x = 3

[D]

v = 6

LETTER OF CORRECT ANSWER: []

For the function $f(x) = \log_3 x$, as the value of $x \to \infty$, the value of $y \to \infty$

SCORE: ___/3 POINTS

[B] ∞

[C] . 0

[D]

[E] 1 ·

LETTER OF CORRECT ANSWER: [3]

For the function $f(x) = 2.5^x$, as the value of $x \to \infty$, the value of $y \to \infty$

SCORE: ___/3 POINTS.

[A] $-\infty$ [B] ∞

[2]

[C] 0

[D] -1

[E] 1

LETTER OF CORRECT ANSWER: []

The domain of $f(x) = \log_9 x$ is $\times > \bigcirc$ [a]

SCORE: ___/3 POINTS

The range of $f(x) = 8^x$ is y > 0. · [b]

SCORE: ___/3 POINTS

The range of $f(x) = \log x$ is [c]

SCORE: ___/3 POINTS

The domain of $f(x) = 9^x$ is [d]

SCORE: ___/3 POINTS

Evaluate the following. Write "UNDEFINED" if the value does not exist. [3]

SCORE: ___/30 POINTS

 $\log_4 64 = 3$ [a]

log10000 = 4

 $\log_3 3^{-4} = -4$ [c]

 $10^{\log 8} =$ [d]

 $\log_{16} 4 = \frac{1}{2}$ [e]

 $\log_3 \frac{1}{9} = -2$ [f]

 $\log_{7} 7^{6} = 6$ [g]

6 log 0 = UNDEFINED [h]

logs(-25) = UNDEFINED [i]

 $log_9 1 = \bigcirc$ [j]

YOU MUST SHOW LOGICAL, NEAT AND ORGANIZED WORK TO EARN FULL CREDIT

PUT A BOX AROUND YOUR FINAL ANSWER

[4] Write $\log z - 2\log x + 3\log y$ as the logarithm of a single expression.

SCORE: ___/ 5 POINTS

Write $\log \frac{z^4}{\sqrt[3]{xy}}$ as the sums / differences / multiples of logarithms of numbers or single variables.

SCORE: ___/5 POINTS

[6] Find the exact solutions of the following equations algebraically. Check your answers.

SCORE: / 18 POINTS

[a]
$$8^{2x+6} = 4^{1-x}$$

SEE WHITE KEY

[b]
$$\log_2(x^2-9) - \log_2(x-2) = 3$$

SEE WHITE KEY

TOUGH ST SHOW LOCKELL TO AND GROWING WORKSTO EARN FELL CREDIT. FOLK STORY OF THE SHORT OF THE S

West low-secretic sings differences in almost of loganding of numbers of single-variables.

410g Z. \$ log x - 1/2 log y

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YOU STINUTE RELEASE

CONTRACTOR MANAGEMENT IN MENTILS OF LAST TOMORES