

MAC1140 SEC29 HW 09-21-2007 4.3

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Due: 09-24-2007

Full Name:

Sec#:

Extra Credit Attempted?

1. [4.3.1aPT] If $b^7 = 8$, then

- $\log_b 7 = 8$
- $\log_7 b = 8$
- $\log_7 8 = b$
- $\log_8 b = 7$
- $\log_b 8 = 7$
- $\log_8 7 = b$

2. [4.3.1cPT] $\log_{\sqrt{5}}(\sqrt{5})^4 =$

- $\frac{1}{4}$
- 2
- $\sqrt{5}$
- $(\sqrt{5})^4$
- 4

3. [4.3.1dPT] $\ln \frac{1}{e^{2a}} =$

- $\frac{1}{2a}$
- $-2a$
- -2
- $2a$
- $\frac{1}{e^{2a}}$

4. [4.3.1ePT] The domain of $f(x) = \ln(2 - 6x)$ is

- $(3, \infty)$

$(-\infty, \frac{1}{3})$

$(\frac{1}{3}, \infty)$

$(-\infty, 3)$

$(0, \infty)$

5.

[4.3.2aMSPT]Select ALL the correct equations for the given graph.



$y = -\log_a(x), a > 1$

$y = \log_a(-x), 0 < a < 1$

$y = \log_a(x), 0 < a < 1$

$y = -\log_a(-x), 0 < a < 1$

None of these