Student: _____ **Date:** _____ **Time:** _____	**Instructor:** Fred Khoury **Course:** Math 2312-1000 Precalculus (Fall - 2015) **Book:** Lial: College Algebra and Trigonometry, 4e	**Assignment:** Quiz Sec 1.8

1. Solve the equation.

$$4^{(2-3x)} = \frac{1}{256}$$

- A. $\left\{\frac{1}{64}\right\}$
- B. $\{-2\}$
- C. $\{2\}$
- D. $\{-256\}$

2. Solve the equation. If necessary, round to the nearest thousandth.

$$3^{4x} = 4^{x+1}$$

- A. $\{-4.819\}$
- B. $\{1.262\}$
- C. $\{0.461\}$
- D. $\{2.262\}$

3. Express the solution in exact form.

$$\log(x-3) = 1 - \log x$$

- A. $\{-5, 2\}$
- B. $\{5\}$
- C. $\{-2, 5\}$
- D. $\{-5\}$

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4. Express the solution in exact form.

$\ln(6x-1)+\ln(x-1)=\ln 1$

A. $\varnothing$

B. $\left\{\frac{7}{6}\right\}$

C. $\left\{0, \frac{7}{6}\right\}$

D. $\left\{1, \frac{1}{6}\right\}$

5. Solve the equation.

$\log_5 x=\sqrt{\log_5 x}$

A. $\{0, 1\}$

B. $\{5\}$

C. $\{1, 5\}$

D. $\{0, 5\}$

6. Solve the equation.

$\log_5 x^2=(\log_5 x)^2$

A. $\{25\}$

B. $\{1, 5\}$

C. $\{0, 5\}$

D. $\{1, 25\}$

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7. Solve the equation.

$\log_4(\log_4 x) = 1$

- A. $\{256\}$
- B. $\{16\}$
- C. $\{4\}$
- D. $\{8\}$

8. Solve the equation.

$\ln x - \ln(x - 2) = \ln 8$

- A. $\left\{\frac{2 \ln 8}{\ln 8 - 1}\right\}$
- B. $\varnothing$
- C. $\{6\}$
- D. $\left\{\frac{16}{7}\right\}$