

MTH 30 LECTURE NOTES (Ojakian)

Topic 18: Exp and Log Equations

OUTLINE

(References: 4.6)

1. Exp Equations
 2. Log Equations
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1. Exp Equations

(a) Approach: Like Bases

- i. Make bases the same by writing the larger base using the smaller base.
- ii. Use exponent rules

(b) Approach: Solve using logarithms

- i. Isolate an exponential expression, then take the log (with the corresponding base) of both sides.

(c) Problems

Section 4.6: 4, 6, 10

Section 4.6: 11, 13, 19

2. Log Equations

(a) Approach: Convert to exponential equation

- i. Condense the logs
- ii. Then convert

(b) Approach: Exponentiate each side.

(c) Problems

Section 4.6: 33, 35, 36, 43