

MTH 30 LECTURE NOTES (Ojakian)

Topic 17: 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