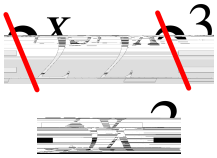
Notes 6.9 - Solving Logarithmic Equations

**Extraneous Solution -

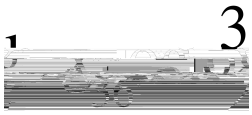
Equality Property of Logarithms

Remember that if both bases of an exponential equation are the same, then the exponents are equal.

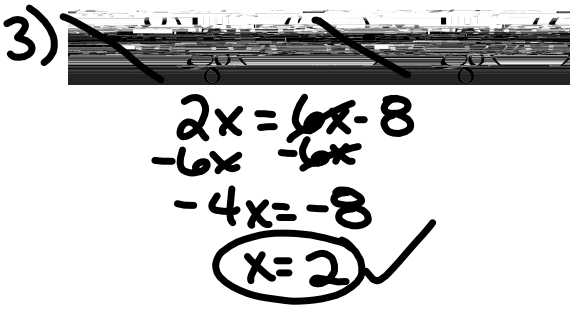


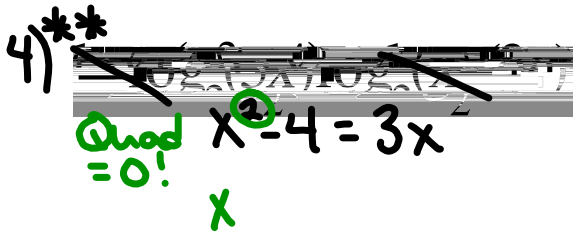
For any logarithm where *b* is a positive number other than 1,

Solve.



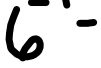
Solve.

3) 

4)** 

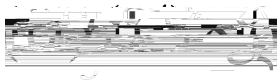
Solve.

5) 



6) 

Solve.



Solve.

Solve.