

Solving Exponential and Logarithmic Equations

Recall: if _____ then _____

Solving Exponential Equations

Strategy #1: use _____ Laws to make _____ the **same**

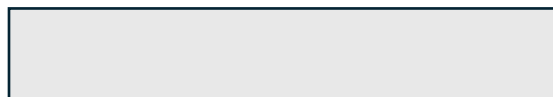
ex. Solve _____

ex. Solve _____

Do: Solve _____

Strategy #2: if no _____ base exists, take the _____ of _____ sides
of the _____ then apply _____ Rule to move _____
out of the _____

ex. Solve _____



Explore why solution is reasonable:

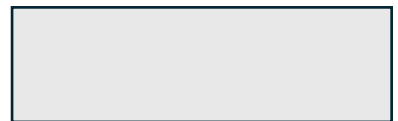
Applying Power Rule to Both Sides of Equation

ex. Solve _____

Do: Solve _____

Using Quadratics to Solve Exponential Equation

ex. Solve for x : _____



Do: Solve for x : _____

Solving Logarithmic Equations

IMPORTANT! domain _____ : _____

Check for _____ solutions!

ex. Solve _____

Tip: _____ to _____

Check:

ex. Solve _____

Check:

Do: Solve _____

Check:

Using Condense to Solve

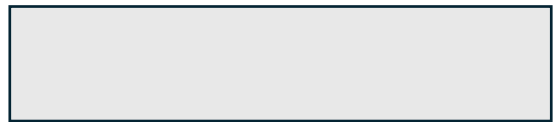
ex. Solve _____



Check #1:

Check #2:

ex. Solve _____



Check #1:

Check #2:

Note: if there are _____, use _____ to denote.