Solving Exponential Equations

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- We can solve exponential equations using logarithms.
- By converting to a logarithm, we can move the variable from the exponent.
- Hint: We want to convert to a logarithm of base 10 or base *e*.

- Example: Solve $6^{3x} = 81$

- Example: Solve $9^{x-4} = 7.13$

- Example: Solve $3^{2x-2} = 73^{x}$

- Example: Solve $5^{4x} = 73$