

1. Solve the equation: $2(5)^{2x+1} = 9^x$.

Solution: First notice that we don't have bases that can be reduced to a common base. This means we will need to use logarithms. There are two ways we can do this. In the first case, and this is probably what most of us will do, we take the common logarithm of both sides.

$$\begin{aligned}2(5)^{2x+1} &= 9^x \\ \log(2(5)^{2x+1}) &= \log(9^x)\end{aligned}$$

Notice that the 2 doesn't have an exponent, thus you have to separate the two factors before bringing down the exponent on the left side.

$$\begin{aligned}\log(2) + \log(5^{2x+1}) &= \log(9^x) \\ \log(2) + (2x + 1)\log(5) &= x\log(9)\end{aligned}$$

Additionally, remember to keep the exponent in parentheses so that you remember to distribute the $\log(5)$ properly. It is a common mistake to write $2x + 1\log(5)$ on the left side of the equation when it should be $(2x + 1)\log(5)$.

$$\begin{aligned}\log(2) + 2x\log(5) + \log(5) &= x\log(9) \\ \log(2) + \log(5) &= x\log(9) - 2x\log(5) \\ \log(2) + \log(5) &= x(\log(9) - 2\log(5)) \\ \frac{\log(2) + \log(5)}{\log(9) - 2\log(5)} &= x\end{aligned}$$

In many cases this might be enough of an answer, but you may be required to simplify this further by using the laws of logarithms to get...

$$\begin{aligned}\frac{\log(10)}{\log(9) - \log(25)} &= x \\ \frac{1}{\log\left(\frac{9}{25}\right)} &= x\end{aligned}$$

Alternately one may use the laws of exponents to simplify the expression first before employing logarithms to bring the variable out of the exponent. It is recommended that you only attempt this method if you are confident in your understanding of the exponential laws.

$$\begin{aligned}2(5)^{2x+1} &= 9^x \\ 2(5)^{2x}(5)^1 &= 9^x\end{aligned}$$

$$\begin{aligned}2(5) &= \frac{9^x}{5^{2x}} \\ 10 &= \left(\frac{9}{5^2}\right)^x \\ 10 &= \left(\frac{9}{25}\right)^x\end{aligned}$$

Where the confusion typically lies with the above method is in the first step. It helps to remember that $(a^x)(a^y) = a^{x+y}$, and that this relationship exists in both directions. Thus we can also write that $a^{x+y} = (a^x)(a^y)$. Now we can use logarithms to finish solving this problem.

$$\begin{aligned}\log(10) &= \log\left(\frac{9}{25}\right)^x \\ 1 &= x\log\left(\frac{9}{25}\right) \\ \frac{1}{\log\left(\frac{9}{25}\right)} &= x\end{aligned}$$

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