

Example 2 Solve a Logarithmic Equation by Using Properties of Equality

Solve $\log_5 (2x^2 - 6) = \log_5 4x$.

$$\log_5 (2x^2 - 6) = \log_5 4x$$

$$2x^2 - 6 = 4x$$

$$2x^2 - 4x - 6 = 0$$

$$x^2 - 2x - 3 = 0$$

$$(x-3)(x+1) = 0 \downarrow$$
$$\boxed{x=3} \text{ or } \boxed{x=-1}$$

check for extraneous
 $x=3$ ✓ soln

$$\log_5 (2(3)^2 - 6) = \log_5 4(3)$$

$$\rightarrow \boxed{\log_5 (12) = \log_5 12}$$

$$x=-1$$

$$\log_5 (2(-1)^2 - 6) = \log_5 4(-1)$$

$$\log_5 (\underline{-4}) = \log_5 \underline{-4}$$

$\boxed{x=-1}$ is an
extraneous soln

Algebra 2 Task 7 6 Solving Logarithmic Equations

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