

Algebra 2 - K/H Extension

Always, Sometimes, or Never True?

Determine if each equation is always, sometimes, or never true. Justify your decision.

Exponential Equation	Always (A), Sometimes (S), or Never (N) <i>(circle one)</i>	Justification
1. A negative number plus a positive number is a negative number.	A S N	
2. The sum of two positive number is positive.	A S N	
3. $(3a)^0 = 3$	A S N	
4. $6^{2a} = 36^a$	A S N	
5. $\frac{1}{a^{-1}} = a$	A S N	
6. $\log_b(b^x) = x$	A S N	

Adapted from "Always, Sometimes, or Never True" from Region 4 Education Service