

Answer

4. A. $x = -2$ the answer
B. $x = 0$ the answer
C. $x = 0$ the answer
5. A. Wrong solution
 $x = -1$ the answer
B. Correct solution
 $x = -1/4$ the answer
6. A. $x = 1/7$ the answer
B. Missing! $3^{2x+1} = ?$ missing data
C. Step 3 : $x = 2$ the answer
7. Yes, it is true that if both sides of the exponential equation have different bases, logarithms are used to solve the exponential equation.
8. A. $x = (\log 7 / \log 4) - 1$ the answer

Explanation

4. A. $3^{2x+2} = 3^x$

Step 1 : $3^{2x+2} = 3^x$

Step 2 : $2x + 2 = x$

Step 3 : $2x - x = -2$

Step 4 : $x = -2$ the answer

B. $5^{2x-1} = 0$

Step 1 : $5^{2x-1} = 0$

Step 2 : $2x - 0 = 0$

Step 3 : $x = 0/2$

Step 4 : $x = 0$ the answer

C. $3^x + 1 = 0$

Step 1 : $3^x + 3^0 = 0$

Step 2 : $x + 0 = 0$

Step 3 : $x = 0$ the answer

5. A. Wrong solution

$16^{x+1} = (1/4)^{x-1}$

Step 1 : $(4^2)^{x+1} = (4^{-1})^{x-1}$

Step 2 : $2x+2 = -x+1$

Step 3 : $2x+x = -1-2$

Step 4 : $3x = -3$

Step 5 : $x = -3/3$

Step 6 : $x = -1$ the answer

B. Correct solution

$x = -1/4$ the answer

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