

SEARCH AND SOLVE

Find the Mistake

Describe and correct the error in simplifying the expression. *Assume all variables are positive.

$$\begin{aligned}(16x^4y^6)^{\frac{2}{3}} &= (\sqrt{16x^4y^6})^3 \\ &= (4x^2y^3)^3 \\ &= 64x^6y^9\end{aligned}$$

Solve

Find the solution(s) to each of the following equations.

1) Solve: $(x+1)^2 = 4$

2) Solve: $3(2n-1)^2 - 7 = 20$

3) Solve: $-2(6n+1)^3 + 4 = -6$

4) Solve: $3(x+1)^{\frac{4}{3}} = 48$