

$$(3n-1)^{2/3}=1/4$$

Solution:

$$(3n - 1)^{2/3} = \frac{1}{4}$$

$$(3n - 1)^{2/3} = \frac{1^2}{2}$$

taking the square root on both sides

$$(3n - 1)^{1/3} = \frac{1}{2}$$

Raising both sides to the power 3

$$3n - 1 = \frac{1^3}{2}$$

$$3n = \frac{1}{2} + 1$$

$$3n = \frac{3}{2}$$

$$n = \frac{1}{2}$$

Answer: $n = \frac{1}{2}$