

TRUE or FALSE?

If u = v, then $u^n = v^n$.

① EXAMPLE Solve for the variable.

$$a) \quad \sqrt{x} - 5 = 0$$

b)
$$\sqrt{x^2 + 5} - 3 = 0$$

c)
$$\sqrt{3y+1} - \sqrt{y+15} = 0$$

 $d) \quad 2\sqrt[3]{10-3x} = \sqrt[3]{2-x}$

2 EXAMPLE

Solve for the variable.

a)
$$\sqrt{x+3} - \sqrt{x-1} = 1$$
 b) $\sqrt{x} + \sqrt{x+2} = 2$

Solve for the variable.

a)
$$(x+4)^{\frac{5}{3}} = 32$$
 b) $\sqrt{x} = x-6$