

Radical Equations (version 2)

Date _____ Period _____

Solve each equation.

1) $5 = (5n)^{\frac{1}{3}}$

2) $-3m^{\frac{3}{2}} = -81$

3) $-4(x - 18)^{\frac{3}{2}} = -108$

4) $20 = 5 + 3x^{\frac{1}{3}}$

5) $(23 - 2a)^{\frac{3}{2}} = 27$

6) $\left(\frac{m}{3}\right)^{\frac{3}{2}} = 27$

7) $\frac{1}{9} = (4x - 19)^{-\frac{1}{2}}$

8) $5 = (4n + 13)^{\frac{1}{3}}$

$$9) (k-15)^{-\frac{3}{2}} = \frac{1}{125}$$

$$10) 125 = 5b^{\frac{2}{3}}$$

$$11) 6 = 3 + m^{\frac{1}{4}}$$

$$12) 36 = 4m^{\frac{2}{3}}$$

$$13) x^{\frac{3}{2}} - 9 = 720$$

$$14) 247 = 4 + x^{\frac{5}{3}}$$

$$15) 343 = (2b + 19)^{\frac{3}{2}}$$

$$16) 375 = 3(n + 30)^{\frac{3}{2}}$$