

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Write each expression in exponential form.**

1)  $(\sqrt[3]{5})^4$

2)  $(\sqrt[4]{3})^7$

3)  $(\sqrt[4]{10p})^5$

4)  $(\sqrt{2k})^5$

5)  $(\sqrt[3]{2a})^5$

6)  $(\sqrt{10x})^3$

**Write each expression in radical form.**

7)  $(7x)^{\frac{1}{2}}$

8)  $(5n)^{\frac{3}{4}}$

9)  $(6p)^{\frac{3}{2}}$

10)  $b^{\frac{4}{3}}$

11)  $n^{\frac{5}{3}}$

12)  $(2r)^{\frac{1}{4}}$

## Answers to Assignment (ID: 1)

1)  $5^{\frac{4}{3}}$

2)  $3^{\frac{7}{4}}$

3)  $(10p)^{\frac{5}{4}}$

4)  $(2k)^{\frac{5}{2}}$

5)  $(2a)^{\frac{5}{3}}$

6)  $(10x)^{\frac{3}{2}}$

7)  $\sqrt{7x}$

8)  $(\sqrt[4]{5n})^3$

9)  $(\sqrt{6p})^3$

10)  $(\sqrt[3]{b})^4$

11)  $(\sqrt[3]{n})^5$

12)  $\sqrt[4]{2r}$