

## Radical Form and Exponential Form

A) Write each of the following in radical form.

1)  $33^{\frac{2}{5}}$

2)  $75^{\frac{4}{7}}$

\_\_\_\_\_

\_\_\_\_\_

3)  $54^{\frac{9}{8}}$

4)  $28^{\frac{3}{2}}$

\_\_\_\_\_

\_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

B) Write each of the following in exponential form.

1)  $\sqrt[2]{47}$

\_\_\_\_\_

3)  $\sqrt[3]{90^8}$

\_\_\_\_\_

\_\_\_\_\_

5)  $(\sqrt[9]{65})^4$

\_\_\_\_\_

6)  $(\sqrt[8]{88})^5$

\_\_\_\_\_

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## Radical Form and Exponential Form

A) Write each of the following in radical form.

1)  $33^{\frac{2}{5}}$

$\sqrt[5]{33^2}$  or  $(\sqrt[5]{33})^2$

2)  $75^{\frac{4}{7}}$

$\sqrt[7]{75^4}$  or  $(\sqrt[7]{75})^4$

3)  $54^{\frac{9}{8}}$

$\sqrt[8]{54^9}$  or

4)  $28^{\frac{3}{2}}$

$\sqrt[2]{28^3}$  or  $(\sqrt{28})^3$

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

$\sqrt[4]{2^5}$  or

B) Write each of

1)  $\sqrt[2]{47}$

$47^{\frac{1}{2}}$

3)  $\sqrt[3]{90^8}$

$90^{\frac{8}{3}}$

5)  $(\sqrt[9]{65})^4$

$65^{\frac{4}{9}}$

6)  $(\sqrt[8]{88})^5$

$88^{\frac{5}{8}}$

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