

Radical Form and Exponential Form

A) Write each of the following in radical form.

1) $29^{\frac{5}{6}}$

2) $42^{\frac{3}{5}}$

3) $66^{\frac{8}{3}}$

4) $87^{\frac{2}{7}}$

5) $30^{\frac{9}{2}}$

B) Write each of

1) $(\sqrt[8]{73})^7$

3) $(\sqrt[5]{12})^9$

5) $\sqrt[7]{95^8}$

6) $\sqrt{6^3}$

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Radical Form and Exponential Form

A) Write each of the following in radical form.

1) $29^{\frac{5}{6}}$

$\sqrt[6]{29^5}$ or $(\sqrt[6]{29})^5$

2) $42^{\frac{3}{5}}$

$\sqrt[5]{42^3}$ or $(\sqrt[5]{42})^3$

3) $66^{\frac{8}{3}}$

$\sqrt[3]{66^8}$ or

4) $87^{\frac{2}{7}}$

or $(\sqrt[7]{87})^2$

5) $30^{\frac{9}{2}}$

$\sqrt{30^9}$ or

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or $(\sqrt[9]{94})^5$

B) Write each of

1) $(\sqrt[8]{73})^7$

7:

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$60^{\frac{3}{4}}$

3) $(\sqrt[5]{12})^9$

$12^{\frac{9}{5}}$

$51^{\frac{1}{3}}$

5) $\sqrt[7]{95^8}$

$95^{\frac{8}{7}}$

6) $\sqrt{6^3}$

$6^{\frac{3}{2}}$