

Radical Form and Exponential Form

A) Write each of the following in radical form.

1) $15^{\frac{4}{3}}$

2) $82^{\frac{7}{8}}$

3) $98^{\frac{5}{6}}$

4) $43^{\frac{1}{4}}$

5) $69^{\frac{2}{7}}$

B) Write each of

1) $\sqrt[9]{20^8}$

3) $(\sqrt[7]{37})^6$

5) $\sqrt[8]{3}$

6) $(\sqrt[3]{14})^2$

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Radical Form and Exponential Form

A) Write each of the following in radical form.

1) $15^{\frac{4}{3}}$

$\sqrt[3]{15^4}$ or $(\sqrt[3]{15})^4$

2) $82^{\frac{7}{8}}$

$\sqrt[8]{82^7}$ or $(\sqrt[8]{82})^7$

3) $98^{\frac{5}{6}}$

$\sqrt[6]{98^5}$ or

4) $43^{\frac{1}{4}}$

$\sqrt[4]{43}$

5) $69^{\frac{2}{7}}$

$\sqrt[7]{69^2}$ or

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$\sqrt[9]{5}$ or $(\sqrt{71})^9$

B) Write each of the following in exponential form.

1) $\sqrt[9]{20^8}$

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$56^{\frac{3}{5}}$

3) $(\sqrt[7]{37})^6$

$37^{\frac{6}{7}}$

$61^{\frac{5}{4}}$

5) $\sqrt[8]{3}$

$3^{\frac{1}{8}}$

6) $(\sqrt[3]{14})^2$

$14^{\frac{2}{3}}$