

RATIONAL EXPONENTS

KEY

Name:

Class:

Date:

Evaluate the following:

$$1) \left(5^{\frac{1}{2}} \cdot 25^{\frac{3}{2}} \right)^{\frac{1}{2}} + 125^{\frac{1}{3}} = \boxed{11}$$

$$2) \left(\frac{1}{729} \right)^{\frac{1}{3}} - 81^{\frac{1}{3}} + \left(\frac{1}{3} \right)^{-2} = \boxed{3}$$

$$3) 125^{1/3} \cdot 18^{-2/3} \cdot 22^{\frac{1}{3}} = \boxed{16}$$

Write the expressions in exponential form:

$$1) \sqrt[3]{27x^3y} = \boxed{3x^1y^{\frac{1}{3}}}$$

$$2) \left(\frac{8}{27x^3} \right)^{\frac{2}{3}} = \boxed{3^{-\frac{4}{3}}x^{-2}}$$

$$3) \sqrt[3]{\frac{3x^3y^3}{x^3y^3}} = \boxed{\frac{3^{\frac{1}{3}}x^{\frac{1}{3}}y^{\frac{1}{3}}}{x^{\frac{1}{3}}y^{\frac{1}{3}}}}$$

Write the expressions in simplified radical form:

$$1) 7^{\frac{1}{2}}x^{\frac{1}{2}}y^{\frac{1}{2}} = \boxed{\sqrt{7x^1y^1}}$$

$$2) 5^{\frac{1}{2}}x^{\frac{1}{2}}y^{-\frac{1}{2}}z^{\frac{1}{2}} = \boxed{\sqrt{\frac{5}{xy^1}} \cdot \sqrt{z^1}}$$

$$3) 10^{\frac{1}{2}}a^{\frac{1}{2}}c^{\frac{1}{2}}u^{\frac{1}{2}} = a \cdot \sqrt{\frac{10^2c^1u^1}{10a^1}}$$

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EQUATIONS WITH RATIONAL EXPONENTS

KEY

Name:

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Solve the equations:

$$1) (x+60)^{\frac{1}{2}} = 2$$

 $x = \boxed{-58}$

$$2) 10 - 4(2x)^{\frac{1}{2}} = 2$$

 $x = \boxed{54}$

$$3) (x^2+6)^{\frac{1}{2}} = x$$

 $x = \boxed{-3}$

$$4) 3(4x-5)^{\frac{1}{2}} = 6$$

 $x = \boxed{\frac{1+2\sqrt{2}}{4}}$

$$5) (x^2-4x-3)^{\frac{1}{2}} = 27$$

 $x_{1,2} = \boxed{-2, 6}$

$$6) 5x^{\frac{1}{2}} - 12x^{\frac{1}{2}} + 4 = 0$$

 $x_{1,2} = \boxed{\frac{8}{25}, 9}$

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Rational Exponents Worksheet Pre Calc Key

LL Leslie

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