5.3 Practice

1) Write the expression in radical form. form.

$r^{\frac{3}{7}}$

2) Write the expression in rational exponent

$\sqrt[3]{5y}$

Simplify each expression.

3) $64^{-1/3}$

4) $\sqrt[4]{162x^{12}y^{9}}$

5) $8^{2/3}$

6) $125^{1/3}$

7) $81^{1/4}$

8) $100^{-1/2}$

9) $8\sqrt{5}+3\sqrt{45}$

10) $r^{4/5}\cdot r^{2/3}$

11) $\frac{\sqrt[4]{64}}{\sqrt[4]{2}}$

12) $(3m)^3\cdot(27m^6)^{1/3}$