**5.3 Practice**

**1) Write the expression in radical form. 2) Write the expression in rational exponent form.**

 

**Simplify each expression.**

3)  4) 

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}}∙r^{^{2}/\_{3}}$

11) $\frac{\sqrt[4]{64}}{\sqrt[4]{2}}$ 12) $\left(3m\right)^{3}∙\left(27m^{6}\right)^{^{1}/\_{3}}$