

Quick Quiz - Simplify Radical Expressions
(16 points)

Name:

Simplify each expression completely. (2 points each)

1) $\sqrt{32}$

2) $4\sqrt[3]{27}$

3) $\sqrt{16a^6}$

4) $\sqrt[5]{x^{20}y^{15}}$

5) $(\sqrt{3})(\sqrt{6})$

6) $\frac{\sqrt{50}}{\sqrt{2}}$

$$7) \quad (10 \sqrt[3]{2})\left(\frac{1}{2} \sqrt[3]{32}\right)$$

$$8) \quad \sqrt[3]{-54x^{18}y^{300}}$$

Extra credit: Simplify fully. $\sqrt{8x^7y^{16}z}$