

## Math 1010 September 1, 2017 HW 6

Do from your text 1.7 # 1-81 alt. odds

1. Write as a radical:  $x^{\frac{3}{5}}$

2. Write using exponents:  $\sqrt[4]{x^7}$

3. Simplify:  $\sqrt[3]{x^7y^{12}}$

4. Simplify:  $\sqrt[3]{x} \sqrt{x}$

5. Simplify:  $\sqrt[4]{x^{26}y^{40}z^{101}}$

6. Rationalize the denominator:  $\frac{1}{\sqrt{5}}$

7. Rationalize the denominator:  $\frac{\sqrt{2}}{3-\sqrt{5}}$

8. Rationalize the denominator:  $\frac{\sqrt{2}+\sqrt{3}}{\sqrt{6}-\sqrt{3}}$