

## Section 1.3 – Roots

### Problem Set 3

Simplify the following expressions.

1.  $\sqrt{169}$

2.  $\sqrt{88}$

3.  $\sqrt{294}$

4.  $\sqrt{4900}$

5.  $\sqrt{720}$

6.  $\sqrt{252}$

7.  $\sqrt{567}$

8.  $\sqrt{375}$

80.  $\sqrt[3]{1728}$

10.  $\sqrt[3]{6561}$

11.  $\sqrt[3]{1024}$

12.  $\sqrt[3]{1296}$

13.  $\frac{-14}{2\sqrt{7}}$

14.  $\frac{-5}{\sqrt{12}}$

15.  $\frac{19}{3\sqrt{10}}$

16.  $\frac{1}{2\sqrt{2}}$

17.  $\frac{\sqrt{4}}{1-\sqrt{2}}$

18.  $\frac{-3}{5+\sqrt{7}}$

19.  $\frac{8}{2+2\sqrt{3}}$

20.  $\frac{-6}{4-\sqrt{7}}$