UNIT 1 – ROOTS AND POWERS

Quiz – Sections 4.2 and 4.3

K. Sears

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DATE:

NAME: _____

1. Use a calculator to evaluate each of the following correct to **TWO** decimal places. (3)

a)

b) $\sqrt[3]{-150} =$ ______ c)

 $\sqrt[4]{500} =$

Classify each of the following as either **Rational** (Q) or **Irrational** (\overline{Q}) numbers. (3) 2.

a)

 $\sqrt{441} =$ ____ b) $\sqrt[3]{300} =$ ___ c) $\sqrt{\frac{9}{4}} =$ ____

Arrange the following in order from **least to greatest**: (2) 3.

 $\sqrt{27}$: $\sqrt[4]{1055}$: $-5\sqrt[3]{5}$:

Express each of the following as radicals in **simplest form**. Please show your thought process. (6) 4.

 $\sqrt{75}$ a)

 $\sqrt[3]{56}$ b)

 $\sqrt[4]{648}$ c)

5. Express each of the following mixed radicals as an entire radical. Please show your thought process. (6)

 $11\sqrt{3}$ a)

 $6\sqrt[3]{5}$ b)

 $2\sqrt[5]{4}$ c)