N3CS19 Practice Set 09

Instructions: Answer each question on loose leaf, quad-ruled (graph paper), headed properly and written in lead-graphite. Remember to fold paper along the center, work exercises in order top to bottom, left column then right column. Staple multiple pages

1) Write each radical expression as rational and irrational factors, e.g., $\sqrt{8} = \sqrt{4} \bullet \sqrt{2} = 2\sqrt{2}$

a. $\sqrt{24}$ b. $\sqrt{45}$ c. $\sqrt{32}$

2) Gv1 pg. 14d; *Justify your argument with evidence.*

3) Solve each equation. *Write your fractions in lowest terms.*

a. $n^3 = \frac{1}{8}$ b. $a^2 = 1.21$ c. $x^3 = -\frac{216}{1000}$

4) Simplify using Exponent Laws

a. $6^2 \bullet 6^3 =$ b. $\left(6^2\right)^3$ c. $\left(6x^3\right)^3$ d. $\left(6^2 x^3\right)^3$

5) Gv1 pg. 30 #34

6) Gv1 pg. 35 # 14

7) Gv1 pg. 35 # 16

8) Compute: $12 - 4^2\left(5 \div 3 \bullet 2\right) + 7$