Adv Alg 2 Sem 2 Week 6 Tuesday
Evaluate. Round answers to nearest hundredth if necessary. 1. $\log _{2} 8+5^{\text {br }_{5} 7}-\log _{4} 64 \quad 7 \quad$ 2. $\log _{7} 7^{4}-\log _{4} 75 \quad 0.89$

Solve for $x$. Round answers to nearest hundredth if necessary.
3. $\log _{3} 2+\log _{3} x=\log _{3}\left(x^{2}-15\right) \quad x=5$
4. $4=\log _{x} 200 \quad x \approx 3.76$

Simplify. State any domain restrictions.
5. $\frac{27 x^{3}-8}{9 x^{2}-4} \frac{9 x^{2}+6 x+4}{3 x+2}, x \neq \pm \frac{2}{3}$
6. $\frac{x^{2}-9 x+20}{x^{2}-2 x-8} \quad \frac{x-5}{x+2} x \neq 4,-2$
***Chapter 7 Test is on Friday***

