AFM HW 5 – FACTORING TO SOLVE LOG/EXP EQUATIONS NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve each equation. Show all work.

1. $e^{2x}-8e^{x}-20=0$ 2. $8e^{x}+e^{2x}=-15$

3. $ln^{2}x+lnx^{3}+2=0$ 4. $log^{2}x=12+logx$

5. $ln^{2}x-lnx^{7}+10=0$ 6. $4e^{2x}+4e^{x}-8=0$