ALG 2
Ch 6
Sec 6.2

a) **Divide using long division.** Express each answer in fraction form b) and polynomial form. Then d) tell if the divisor is a factor of the dividend. If yes, also list its zero/root/solution.

2. $(3x^2 + 7x - 20) \div (x + 4)$

4. $(2x^3 - 3x^2 - 18x - 8) \div (x - 4)$

6. $(9x^2 - 21x - 20) \div (x - 1)$

8. $(x^3 - 13x - 12) \div (x - 4)$

Determine whether each binomial is a factor of $x^3 + 4x^2 + x - 6$.

10. $x + 2$

12. $x - 3$