Alg 2 6.3 PracticeB Name_____ hr___

Use the Remainder Theorem to find the remainder when f(x) is divided by x – a.

1. $f(x)=2x^2-3x+1;\ (x-2)$

2. $f(x)=x^3-x^2+2x-1;\ (x+3)$

3. $f(x)=2x^3-3x^2+4x-7;\ (x-2)$

Use the Factor Theorem to determine whether the first polynomial is a factor of the second polynomial.

4. $x-1;\ x^3-x^2+x-1$

5. $x-2;\ x^3+3x^2-4$

6. $x+2;\ 4x^3+9x^2-3x-10$

7. $x-3;\ x^3-x^2-x-15$

Determine whether each binomial is a factor of $x^3+x^2-16x-16$.

8. $x+2$

9. $x-4$

10. $x+1$

11. $x-1$