

Name _____

Date _____

Applying the Remainder Theorem - Matching Worksheet

Match the problems to the remainders of their quotient.

1. $(x^4 - 4x^2 + 5) \div (x - 3)$

a. 360

2. $(3x^2 + x^2 + 4x - 11) \div (x + 3)$

b. 2

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

c. 50

4. $(5x^3 + 6x^2 - 4x - 20) \div (x - 3)$

d. -128

5. $(3x^7 - x^4 + 2x^3 - 5x^2 - 4) \div (x - 2)$

e. 157

6. $(3 + 5x - 4 - 6x^2 + 5) \div (x + 1)$

f. 29

7. $(4x^3 + 5x - 2x + 3) \div (x - 3)$

g. 13

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

h. 120

9. $(3 + 2x^4 - 5x + x^2) \div (x - 2)$

i. -7

10. $(4x^3 - 4x^2 - 4x + 4) \div (x + 3)$

j. -112

