Name _____ Date _____ Pd ____

5.7 Synthetic Division of Polynomials DAY ONE CYU

☑ *Use when you get it right all by yourself*

S *Use when you did it all by yourself, but made a silly mistake*

H *Use when you could do it alone with a little help from teacher or peer*

G *Use when you completed the problem in a group*

X *Use when a question was attempted but wrong (get help)*

N *Use when a question was not even attempted*

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Synthetic Division with polynomial functions	1 - 4	5, 6, 9, 10, 12	7, 8, 11

Use synthetic division to complete the division problems below. Show all work to earn full credit.

1. $(x^2 + 3x - 40) \div (x - 5)$

2. $(x^2 - 14x + 24) \div (x - 2)$

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

4. $(x^2 + 12x + 32) \div (x + 4)$

5. $(x^3 - 7x^2 - 13x + 5) \div (x - 2)$

6. $(x^3 + 6x^2 + 4x - 7) \div (x + 5)$

7. $(4x^2 - 9) \div (x - 2)$

8. $(3x^2 - 4) \div (x - 1)$

9. $(2x^4 - 13x^3 + 16x^2 - 9x + 20) \div (x - 5)$

10. $(3x^4 + 5x^3 - x^2 + x - 2) \div (x + 2)$

11. $(3x^2 - 15) \div (x + 3)$

12. $(3x^2 + 7x - 6) \div (x + 4)$

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.