5.6 Long Division of Polynomials DAY ONE CYU

☐ Use when you get it right all by yourself

\$ Use when you did it all by yourself, but made a silly mistake

#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)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Long Division with polynomial functions	1 - 4	5 - 8	9 - 12

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

1.
$$\frac{12x^4+3x^2}{x}$$

12x3+3x

2.
$$\frac{15x^2-9x^5}{x}$$

15x-9x4 or -9x4+15x

3.
$$\frac{20x^3-30x^2+5x+5}{5}$$

4x3-6x2+x+1

4.
$$\frac{8x^3-4x^2+6x+2}{2}$$

$$4x^{3}-2x^{2}+3x+1$$

$$5. \, \frac{15p^3 + 18p^2}{3p}$$

6.
$$\frac{14m^2 - 27m^3}{7m}$$

$$2m-\frac{27m^2}{7}$$

$$7.\,\frac{-9x^4+18x^5}{6x^5}$$

$$8. \, \frac{6x^5 + 3x^4}{3x^4}$$

9.
$$\frac{-9x^5+3x^4-12}{3x^3}$$

$$-\frac{3}{2x} + 3$$

$$-3x^{2} + x - \frac{4}{x^{3}}$$

10.
$$\frac{6a^2-2a+12}{-2a^2}$$

11.
$$\frac{4x^4 - 6x^3 + 7}{-4x^4}$$

$$12. \, \frac{-12a^3 + 36a - 15}{3a}$$

$$-3+\frac{2}{9}-\frac{6}{9}$$

$$-1 + \frac{3}{2x} - \frac{7}{4x^4}$$

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.

