

5.6 Long Division of Polynomials DAY TWO 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
Long Division with polynomial functions		1 - 6	7 - 12

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

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

$x+1$

2. $\frac{x^2+7x+10}{x+5}$

$x+2$

3. $\frac{2x^2+13x+15}{x+5}$

$2x+3$

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

$3x+2$

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

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

6. $\frac{3x^2-x-4}{x-1}$

$3x+2 - \frac{2}{x-1}$

$$7. \frac{9a^3 - 3a^2 - 3a + 4}{3a + 2}$$

$$3a^2 - 3a + 1 + \frac{2}{3a + 2}$$

$$8. \frac{4x^3 + 12x^2 + x - 14}{2x + 3}$$

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

$$9. \frac{8x^2 + 10x + 1}{2x + 1}$$

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

$$10. \frac{3x^2 + 17x + 7}{3x + 2}$$

$$x + 5 - \frac{3}{3x + 2}$$

$$11. \frac{2x^3 + 2x^2 - 17x + 8}{x - 2}$$

$$2x^2 + 6x - 5 - \frac{2}{x - 2}$$

$$12. \frac{4x^3 + 11x^2 - 8x - 10}{x + 3}$$

$$4x^2 - x - 5 + \frac{5}{x + 3}$$

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.

