

Name Key  
 Bridge to Algebra 2

Date \_\_\_\_\_ Pd \_\_\_\_\_  
 Quiz Review 5.6 - 5.7

- 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
Dividing	1, 2		
Long Division	3, 4, 5, 8	6, 7	
Synthetic Division	3, 4, 5, 8	6, 7	
Word problems			

Divide. Show all work to earn full credit.

1.  $\frac{x^2+21x+49}{7x^2}$

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

2.  $\frac{5a^3b-15ab^2+20ab}{-5ab}$

$$-a^2 + 3b - 4$$

Use long division & synthetic division to divide the two polynomials. Show work for both methods to earn full credit.

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

$$a + 1 + \frac{6}{a-2}$$

4.  $(4x^2 + 20x + 7) \div (x + 5)$

$$4x + \frac{7}{x+5}$$



$$5. \frac{a^3 + a^2 + 2a + 6}{a - 2}$$

$$a^2 + 3a + 8 + \frac{22}{a - 2}$$

$$6. \frac{9b^3 - 18b^2 + 8b - 1}{3b - 2}$$

$$3b^2 - 4b - \frac{1}{3b - 2}$$

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

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

$$8. \frac{-10x^2 - x^3 - 21x + 18}{x - 6}$$

$$-x^2 - 16x - 117 - \frac{684}{x - 6}$$

9. The area of a rectangle is  $(15x^3 - 3x^2 + 60)$  square feet. If its length is  $3x^2$  feet, find its width.

$$(5x - 1 + \frac{20}{x^2}) \text{ ft}$$

10. The perimeter of an equilateral triangle is  $(21a^3b^6 + 3a - 3)$  units. Find the length of a side.

$$(7a^3b^6 + a - 1) \text{ units}$$

**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.

