

Name: _____

Unit 3 Section 6.5 Part 1 Long division

Given a polynomial divisor and dividend, use long division to find the quotient and remainder. Write the result in the form $dividend = (divisor)(quotient) + remainder$ and then carry out the multiplication and addition as a check.

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

Check :

Solution:

2. $(6x^4 + 5x^3 + 2x + 8) \div (x^2 + 2x - 5)$

Check:

Solution: