

Name \_\_\_\_\_

Algebra 2 & Trig

Unit 3 Target 2 Remediation

1. Given that  $(x + 2)$  is a factor of  $x^3 + 7x^2 + 12x + 4$ , what is the remainder when  $x^3 + 7x^2 + 12x + 4$  is divided by  $(x + 2)$ ?

2. Find the quotient using long division.  $(9x^3 - 24x^2 + 8x + 3) \div (x - 2)$