

(C2-1.3a) Name:

### Homework Questions 3 – Dividing a Polynomial

Divide the following to find the quotient

a)  $2x^3 + 3x^2 - 3x - 2$  by  $(x + 2)$

$$2x^2 - x - 1$$

b)  $3x^3 - 2x^2 - 19x - 6$  by  $(x - 3)$

$$3x^2 + 7x + 2$$

c)  $x^3 + 7x^2 - 6x - 72$  by  $(x - 3)$

$$x^2 + 10x + 24$$

d)  $4x^3 + 3x^2 - 25x - 6$  by  $(x - 2)$

$$4x^2 + 11x + 3$$