

Name \_\_\_\_\_

Sect. 7.6, 8.1, 8.2

For Instructor use only →

<b>Quiz pts.</b>	
<b>Attendance</b>	
<b>Total</b>	

M T W F

(1) [4 pts.] Use synthetic division to perform the division.  $(3x^3 - 10x^2 + 5x - 6) \div (x - 3)$

(2) [4 pts.] Is  $x + 2$  a factor of  $P(x) = x^3 + 3x^2 - x - 6$ ? Use **ONLY** the **Factor Theorem** (beware that this is not the factorization we learned in previous chapters).

(3) [4 pts.] Draw the line  $y = -1$ .

(4) [4 pts.] What is the slope of the line passing through the points  $(2, -8)$  and  $(-1, 0)$ .