

Hw 04 Last Name _____ First Name _____

01 Factor the following polynomial / if not possible state n/a

$y^2 + 10y + 16$	$t^3 - 8$	$x^3 - 4x$	$x^2 + 10$

02 Find the restricted value of x for the rational expression [meaning what value will make it zero in the denominator for x]. If there are no restricted value of x, then state no restrictions and give those value of x.

$\frac{x^2 + x + 15}{x^3 - 4x}$		$\frac{2x - 5}{x^2 - 81}$	

3

Consider the following equation. $x + 4y = 5$

- (a) Rewrite the equation in slope-intercept form.
- (b) Given $x = -7$, find the value for y and graph.
- (c) Given $x = -3$, find the value for y and use the points to complete the graph of the line.

4

Write the slope-intercept form of the equation for the line that passes through the points $(-6, 3)$ and $(1, 4)$.

5

Consider the following equation of a line. Reduce all fractions to lowest terms. $8x + 4y = 15$

- (a) Rewrite this equation in slope-intercept form.
- (b) Find the equation, in slope-intercept form, for the line which is parallel to this line and passes through the point $(-7, 8)$.