San José State University Fall 2015

Math-8: College Algebra Section 03: MW noon-1:15pm Section 05: MW 4:30-5:45pm

Quiz #7

Closed book and notes. No calculator allowed. All work must be shown for full credit.

- 1. The map of a town is laid out on a grid. The police station and the fire station are both located on Main Street, with the police station at the position (3, -7) and the fire station at the position (-2, 5).
 - a. How far is it between the two stations?

b. City Hall is also located on Main Street, exactly halfway between the two stations. What is the postion of City Hall?

	Water boils at $212^{\circ}F$ and $100^{\circ}C$. heit and x be degrees Celsius.	It freezes a	t $32^{\circ}F$ and $0^{\circ}C$.	Let y be degrees
a. form.	Find an equation for converting from	Celsius to F	arenheit expressed	l in slope-intercept
b.	Express the equation in point-slope f	form using t	he boiling point.	
с.	Express the equation in general form			

3. Co	onsider the equation $y = \frac{8}{x^2 - 2}$.
a. De	etermine any x-intercept(s).
b. De	etermine any y-intercept(s).
c. De	etermine any discontinuities.
d D	etermine any symmetries by plugging in (-x) and/or (-y) appropriately. Be sure to
	name any discovered symmetry.
e. Sk	etch the graph, showing all of the features found above.