

Name _____

Algebra I – Unit 1 – PreAlgebra

Review Sheet for Quiz

- 1) Complete the set chart below. Use roster form, set notation, or set builder where applicable

<u>Roster</u>	<u>Set Notation</u>	<u>Set Builder</u>
{4,5,6,.....}		
	[-1.7]	
{3,4.....,90,91}		
	$(-\infty, -2]$	
		{x x < 3}

- 2) Give the answer as the most simplified expression containing positive exponents only

- 2^{-4}
- 5^{-3}
- $(\frac{3}{4})^{-2}$
- $\frac{2}{3^{-2}}$
- $a^{-4}b^2c^{-3}$
- $\frac{x^3y^{-2}z^{-5}}{x^{-1}y^6z^{-2}}$

- 3) Indicate whether each expression below is rational or irrational

- $\sqrt{25}$
- $\sqrt{2}$
- $\sqrt{13} + \sqrt{81}$
- $(\sqrt{3})(\sqrt{16})$
- $(\sqrt{5})(\sqrt{5})$
- π
- $\pi + 5$

- 4) Evaluate all expressions below given the values for each variable

- $x^2 + y^4z$ if $x = 2, y = -1, z = -3$
- $3a^{-2} + b^3$ if $a = 3, b = -2$
- $\frac{4mp^{-3}}{n^{-2}}$ if $m = -5, p = 2, n = -1$