

Section P.1 - Real Numbers

OBJECTIVE(S)

<u>SELF-ASSESSMENT</u>	<u>BEFORE:</u>	<u>DURING:</u>	<u>AFTER:</u>
<u>VOCABULARY</u>	<u>KNOWLEDGE</u>		
<ul style="list-style-type: none"> • Real number • Rational number • Irrational number • Bounded interval • Unbounded interval 	<ul style="list-style-type: none"> • Real number system • Bounded vs. unbounded intervals of real numbers • Interval vs. inequality notation • Properties of exponents 		
<u>SKILLS</u>	<ul style="list-style-type: none"> • Convert between set and interval notation • Simplify expressions involving powers (including scientific notation) 		

Section P.2 - Cartesian Coordinate System

OBJECTIVE(S)

<u>SELF-ASSESSMENT</u>	<u>BEFORE:</u>	<u>DURING:</u>	<u>AFTER:</u>
<u>VOCABULARY</u>	<u>KNOWLEDGE</u>		
<ul style="list-style-type: none"> • Absolute value 	<ul style="list-style-type: none"> • Distance & midpoint formulas • Standard form equation of a circle 		
<u>SKILLS</u>	<ul style="list-style-type: none"> • Given two points: find the distance between them; find their midpoint • Find the standard form equation of a circle • Use the distance and/or midpoint formulas in geometric situations 		
<u>ASSIGNMENT</u>			

Section P.3 - Linear Equations & Inequalities

OBJECTIVE(S)

<u>SELF-ASSESSMENT</u>	<u>BEFORE:</u>	<u>DURING:</u>	<u>AFTER:</u>
<u>VOCABULARY</u>	<u>SKILLS</u>		
<ul style="list-style-type: none"> • Equation • Linear equation in x • Equivalent • Linear inequality in x • Solution set 	<ul style="list-style-type: none"> • Solve linear equations and inequalities in one variable (including those involving fractions) • Solve a double inequality 		

Section P.4 - Lines in the Plane

OBJECTIVE(S)

<u>SELF-ASSESSMENT</u>	<u>BEFORE:</u>	<u>DURING:</u>	<u>AFTER:</u>
<u>VOCABULARY</u>	<u>KNOWLEDGE</u>		
<ul style="list-style-type: none"> • Slope • y-intercept • Linear equation in x & y • Graph • x-intercept 	<ul style="list-style-type: none"> • Slope formula • Forms of equations of lines: point-slope, slope-intercept, general form • Parallel and perpendicular lines • Real world applications of linear equations 		

SKILLS

- Find the slope of a line
- Find the equation of a line given (a) one point and the slope; (b) the slope and y -intercept; and (c) two points
- Graph linear equations in two variables with and without a graphing utility
- Find the equation of a line parallel or perpendicular to a given line through a given point
- Set up and solve application problems that can be modeled by linear equations
- Write a linear equation based on data given in a table and use it to make predictions

ASSIGNMENT

Section P.5 - Solving Equations Graphically, Numerically & Algebraically

OBJECTIVE(S)

<u>SELF-ASSESSMENT</u>	<u>BEFORE:</u>	<u>DURING:</u>	<u>AFTER:</u>
<u>VOCABULARY</u>	<u>KNOWLEDGE</u>		
<ul style="list-style-type: none"> • x-intercept • Zero • Quadratic equation in x 	<ul style="list-style-type: none"> • Zero Factor Property • Methods of solving a quadratic equation algebraically (4) 		

SKILLS

- Solve equations involving quadratic expressions algebraically
- Solve equations graphically by finding x -intercepts or point(s) of intersection
- Model with quadratic functions

ASSIGNMENT

Section P.6 - Complex Numbers

OBJECTIVE

<u>SELF-ASSESSMENT</u>	<u>BEFORE:</u>	<u>DURING:</u>	<u>AFTER:</u>
<u>VOCABULARY</u>		<u>SKILLS</u>	
<ul style="list-style-type: none">• Imaginary unit• Complex number• Complex conjugate		<ul style="list-style-type: none">• Perform arithmetic operations on complex numbers• Solve quadratic equations with complex zeros	

Section P.7 - Solving Inequalities Algebraically & Graphically

OBJECTIVE

<u>SELF-ASSESSMENT</u>	<u>BEFORE:</u>	<u>DURING:</u>	<u>AFTER:</u>
<u>SKILLS</u>			
<ul style="list-style-type: none">• Solve absolute value and quadratic inequalities algebraically• Solve inequalities involving absolute value and quadratic polynomials graphically• Model with quadratic inequalities			

ASSIGNMENT(S)
