



**PARKSIDE CHRISTIAN ACADEMY**

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**Weekly Sheet for HS-2 Algebra II**

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**Week # 22    Dates: January 23, 2012 – January 27, 2012**

**Topics/Content/Skills:**

**Topic:** Exploring rational functions

**Content:** Rational expressions are algebraic expressions whose numerator and denominator are polynomials. This series of lessons describes the simplification such expressions and identifies values of the variable that must be excluded. The lesson will discuss various methods of simplification from addition to division.

**Skills:** Students will be able to:

- To simplify rational expressions and complex fractions
- To add and subtract rational expressions

**Vocabulary/Key Terms/Formulas:**

NA

**Key Terms:** All

**Formula:** NA

**Homework:**

	<b><u>Lesson</u></b>	<b><u>Homework</u></b>
<b><u>Monday</u></b>	Lesson: Simplifying rational expressions: Review	Student will: Complete page 1 of the homework packet
<b><u>Tuesday</u></b>	Lesson: Adding and subtraction of rational expressions:	Student will: Complete page 2 of the homework packet
<b><u>Wednesday</u></b>	Lesson: Solving rational equations and inequalities:	Student will: Complete page 3 of the homework packet
<b><u>Thursday</u></b>	Lesson: Solving rational equations: Test	Student will: Complete page 4 of the homework packet
<b><u>Friday</u></b>	Lesson: <ul style="list-style-type: none"> <li>• No class for HS2</li> </ul>	Students will: Complete the remainder of the homework packet.

**Tests:**

Quiz on Thursday, January 26, 2012

**Special Events/News:**

NA

**Extra-ordinaries/Mastery Review Material:**

**Answer the Following:**

- $Y^2+X^2 =9$  •
  - $Y^2+X^2 =16$  •
  - $Y^2+X^2 =25$  •
  - $Y^2+X^2 =36$  •
  - $Y^2+X^2 =49$  •
- What is the radius of the circles on  
the left? •

Equation of Circle in Standard Form

- $(y-3)^2+(X-1)^2 =9$
  - $(y-5)^2+(X-14)^2 =16$
  - $(y-1)^2+(X-5)^2 =25$
  - $(X+2)^2+(y-12)^2 =36$
  - $(y+7)^2+(X +5)^2 =49$
  - $(X +8)^2+(y+17)^2 =49$
- What is the center and radius of each circle to the left?