Warm Up

Solve the following rational equation.

1).

$$\frac{3}{x} + x = 4$$

$$3 + x^2 = 4x$$

$$x^2 - 4x + 3 = 0$$

$$(x-1)(x-3) = 0$$

$$1 \qquad 3$$

$$\{1, 3\}$$

2). Is either solution extraneous?

MIDTERM SCHEDULE

Date	Exams
Monday, March 25th	• 2nd block B day ✗ • 4th block B day
Tuesday, March 26th	• 1st block A day • 3rd block A day
Wednesday, March 27th	• **1st block** ✗ • 1st block B day • **3rd block** • 3rd block B day
Thursday, March 28th	• **2nd block** • 2nd block A day ✗ • **4th block** ✗ • 4th block A day
Friday, March 29th	Make-up tests

Reloop #2

Solve the following rational equation.

2). $\dfrac{2n^2 - 8n - 10}{5n} - 1 = \dfrac{n + 6}{5n}$

$$\boxed{\dfrac{2n^2 - 8n - 10 - 5n = n + 6}{5n \qquad 5n \qquad 5n}}$$

$\{-1, 8\}$

$2n^2 - 8n - 10 - 5n = n + 6$

$2n^2 - 13n - 10 = n + 6$

$ -6 \qquad -6$ *extrane*

$2n^2 - 13n - 16 = n$ $=$

$ -n \qquad\qquad -n$ *unde-*

$2n^2 - 14n - 16 = 0$

$(n - 8)(n + 1) = 0$

$\qquad\quad \downarrow \qquad\quad \downarrow$

$\qquad\quad 8 \qquad\quad -1$

-32

ac

$-\dfrac{16}{2}$

$(-8) =$

b

-14

$\dfrac{2}{2} = 1$

Choice Problems

- complete each part
- work with your partner
- Check for extraneous solutions.

P-I-G Practice

- Check each answer
- Ask 3 before me
- Use your tools to help!

Midterm Information

- 30 multiple choice questions
- 5 short response questions
- Topics: Unit 1, 2, 3, and 4

Homework

Homework

1. A marathon race was completed by 5 participants. What is the range of times given in hours below?

   2.7 hr, 8.3 hr, 3.5 hr, 5.1 hr, 4.9 hr

Exit Ticket

$$\frac{x-5}{x^2} + \frac{1}{x} = \frac{6}{x}$$