

What's Going On?

Checking In

Homework Logs

Minds on

Two Column Quiz

Action!

The Big Question

Consolidation

Any Questions?

Learning Goal - I will be ready for tomorrow's test!

Minds on

F.F.M.

Simplify and state restrictions.

$$\frac{4x}{x^2 + 6x + 8} - \frac{3x}{x^2 - 4}$$

1. Factor!

$$= \frac{4x}{(x+2)(x+4)} - \frac{3x}{(x+2)(x-2)}$$

2. Get a common denominator... multiply the first term by $\frac{(x-2)}{(x-2)}$ and the second term by $\frac{(x+4)}{(x+4)}$. *They both already have $(x+2)$ in their denominators so we don't need to multiply by $(x+2)$.

$$= \frac{(x-2) \cdot 4x}{(x+2)(x+4)} - \frac{(x+4) \cdot 3x}{(x+2)(x-2)}$$

$$= \frac{(x-2)(4x) - (x+4)(3x)}{(x+2)(x+4)(x-2)}$$

*Restrictions $\rightarrow x \neq \pm 2, -4$

3. Simplify the numerator.

$$= \frac{(x-2)(4x) - (x+4)(3x)}{(x+2)(x+4)(x-2)}$$

* expand into brackets because of subtraction

$$= \frac{4x^2 - 8x - (3x^2 + 12x)}{(x+2)(x-2)(x+4)}$$

$$= \frac{4x^2 - 8x - 3x^2 - 12x}{(x+2)(x-2)(x+4)}$$

$$= \frac{x^2 - 20x}{(x+2)(x-2)(x+4)} ; x \neq -2, -4$$

Planning Ahead

| FEBRUARY | | | | | | |
|----------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | | | | | | |

| MARCH | | | | | | |
|-------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

| APRIL | | | | | | |
|-------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | | |

| MAY | | | | | | |
|-----|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

| JUNE | | | | | | |
|------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| 31 | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | | | | |

○ Unit Test

□ Midterm Exam

Action!

The Big Questions

I have put together a few questions that capture the major concepts of this unit.

Please do not assume that these questions represent everything you need to be able to do from the unit.

Factoring will, obviously, be a major component of the test and you should expect to see several application-type problems.

Consolidation

Gut Check Time