Amor Cuevas Jr
1-27-12
P4
Algebra with

homework
p.520 #32-35

Multiply or divide. State any restrictions on the variable.

32. $\frac{a^2+a-12}{a^2+3a-10} \cdot \frac{a^2+2a-15}{a^2+a-6}$

$\frac{(a+4)(a-3)}{(a+5)(a-2)} \cdot \frac{(a+5)(a-3)}{(a+3)(a-2)}$

$\frac{(a-3)^2}{(a-2)^2}$ a ≠ 2, -3, -5

34. $\frac{b^2-2b}{b^2+5b} \div \frac{2b-10}{4b+20}$

$\frac{b(b-2)}{b(b+5)} \cdot \frac{4(b+5)}{2(b-5)}$

$\frac{2(b-2)}{(b-5)}$ b ≠ 0, -5

How do we find the factors of $2x^2-15x+28$?

$2x^2-15x+28 = 2x^2-8x-7x+28$

$2x(x-4) - 7(x-4)$

$(x-4)(2x-7)$

$2x^2-15x+28$

$(x-4)(2x-7)$

$x^2+2x-15$

$x^2+5x-3x-15$

$x(x+5) - 3(x+5)$

$(x+5)(x-3)$

$x^2+2x-15$

$(x+5)(x-3)$

$\frac{x^2-16}{x^2+2x-15} \div \frac{x^2+8x+16}{x^2+5x+4}$

$\frac{(x+4)(x-4)}{(x+5)(x-3)} \cdot \frac{(x+1)(x+4)}{(x+4)(x+4)}$

$\frac{(x+1)(x-4)}{(x+5)(x-3)}$ x ≠ 3, 4

$3x^2+x-4 \div x^2-3x+2$

$3x^2+4x-3x-4 \div x^2-2x-1x+2$

$x(3x+4) - 1(3x+4) \div x(x-2) - 1(x-2)$

$(3x+4)(x-1) \div (x-2)(x-1)$

$\frac{(3x+4)(x-1)}{(x-2)(x-1)}$ x ≠ 2, 1

30. $2x^2-5x-3 \cdot x^2-9$

$x^2-1x+6x-6 \cdot (x-3)(x+3)$

$2(x^2-3x) + 1(x-3) \cdot (x-3)(x+3)$

$(2x+1)(x-3) \cdot (x-3)(x+3)$

$\frac{(2x+1)(x-3)}{(x-3)(x+3)}$ x ≠ -3, 3

$12(x^2-3x) \cdot x^2-9$

$12x(x-3) \cdot (x+3)(x-3)$

$\frac{12x}{(x+3)}$ x ≠ -3, 0, 3

I learned how to multiply and divide and also how to find restrictions.

Homework Log

Name: Amor Cuevas Jr Class: Algebra II Honors Period: 4

Monday	Notes/ Points	Tuesday	Notes/ Points	Wednesday	Notes/ Points	Thursday	Notes/ Points	Friday	Notes/ Points	Week Total
	10		10		10		10		10	50
	10		10		10		10	JAN 18 2013	10	50
		JAN 22 2013	10	JAN 23	10					20