

January 13, 2015
 Getting Help!
 * Math Tutoring - Rm 583
 * My (Your) Office Hours
 1:00 - 3:00 M-F
 Rm # 540
 * Dr. Kildane's Office Hours
 * Math Jam Fridays
 12:00 - 2:00
 Rm # 320

Jan 13-11:08 AM

#12)

$$\frac{2m^2 - 2m - 12}{m^2 - 5m + 6} - \frac{m+6}{m-2}$$

$$\frac{2(m^2 - m - 6)}{2(m-3)(m+2)}$$

$$\frac{m^2 - 5m + 6}{(m-3)(m-2)}$$

$$\frac{2(m-3)(m+2)}{(m-3)(m-2)} - \frac{m+6}{m-2}$$

Common denominator

$$\frac{2(m+2)(m+6)}{m-2}$$

$$\frac{2m^2 + 4m - 6}{m-2}$$

$$\frac{m-2}{m-2} = 1$$

Jan 13-11:15 AM

#11)

$$\frac{x^2 - 9}{x^2 - 3x} \div \frac{x^2 + 8x + 15}{2x + 10}$$

① Simplify by factoring

$$\frac{(x+3)(x-3)}{x(x-3)} \div \frac{(x+5)(x+3)}{2(x+5)}$$

$$\frac{(x+3)}{x} \div \frac{(x+3)}{2}$$

Keep Change flip

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

Jan 13-11:26 AM

#12)

$$\frac{ay + 3a + 2y + 6}{a + 2}$$

① Simplify by factoring

$$\frac{ay + 3a + 5y + 15}{a + 5}$$

$$\frac{a(y+3) + 5(y+3)}{a+5}$$

$$\frac{(y+3)(a+5)}{(a+5)}$$

$$\frac{(y+3)}{(y+3)} = 1$$

Jan 13-11:31 AM

#4)

$$x + (x+1) + (x+2) = 78$$

$$3x + 3 = 78$$

$$\frac{3x}{3} = \frac{75}{3}$$

$$x = 25$$

$$25 + 26 + 27 = 78$$

$$51 + 27 = 78$$

$$78 = 78$$

Jan 13-11:37 AM

$$\frac{9}{150} = 0.06$$

6. → 6%

6.0%

Jan 13-11:42 AM

#13)

$$5x - 6y = 3$$

linear equation
in x & y
of the form

$$ax + by = c$$

$$\text{or } y = mx + b$$

$$\frac{-6y}{-6} = \frac{-5x}{-6} + \frac{3}{-6}$$

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

$$= \frac{5x - 3}{6}$$

Jan 13-11:44 AM