

December 2, 2015
 * Final Exam - Monday
 December 7th
 @ 8:00am

Dec 2-9:05 AM

#5) $1 - \frac{2}{x} = \frac{3}{x^2}$ LCD: x^2

$$x^2(1) + x^{\cancel{2}}(-\frac{2}{\cancel{x}}) = x^{\cancel{2}}(\frac{3}{\cancel{x^2}})$$

$$x^2 - 2x = 3$$

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

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

① $x-3=0$
 $x=3$

② $x+1=0$
 $x=-1$

Dec 2-9:13 AM

#8) $2x - 8x^3$

$$-2 \cdot 2x(1-4x^2)$$

$$2x(1+2x)(1-2x)$$

Dec 2-9:19 AM

$$\frac{x-4}{6x} + \frac{x^2-3x-10}{6x} = \frac{x-1}{6}$$
 LCD: $6x$

$$\cancel{6x}(\frac{x-4}{\cancel{6x}}) + \cancel{6x}(\frac{x^2-3x-10}{\cancel{6x}}) = \cancel{6x}(\frac{x-1}{\cancel{6}})$$

$$x-4 + x^2-3x-10 = x^2-x$$

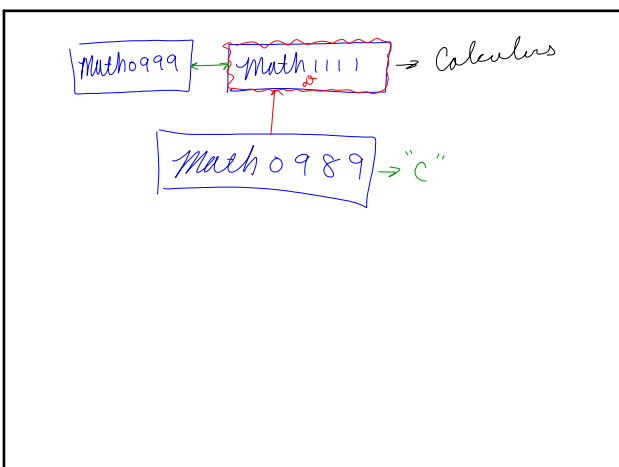
$$-2x-14 + \cancel{x^2} = \cancel{x^2} - \cancel{x}$$

$$-x-14=0$$

$$\frac{-x}{-1} = \frac{14}{-1}$$

$$x = -14$$

Dec 2-9:21 AM



Dec 2-9:32 AM