December 2, 2015

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

Dec 2-9:05 AM

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

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

$x^2 - 2x = 3$

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

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

① $x - 3 = 0$

$\boxed{x = 3}$

② $x + 1 = 0$

$\boxed{x = -1}$

Dec 2-9:13 AM

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

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

$\boxed{2x(1+2x)(1-2x)}$

Dec 2-9:19 AM

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

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

$\cancel{x} - 4 + x^2 \cancel{-3x} - 10 = x^2 - x$

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

$-x - 14 = 0$

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

$\boxed{x = -14}$

Dec 2-9:21 AM

Math0999 ↔ Math1111 → Calculus

Math0989 → "C"

Dec 2-9:32 AM