9/7/2006

T-Th 11:10 - 12:35

3 x 5 Card

Name
Address
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Major
Future Plans
Videos on campus only

From menu
Cisco IPTV  (on left)
Cisco IP/TV Viewer  (on right)
ON Demand
Mathematics

Mathematical Application
my Web page

www.mc3.edu

Faculty and Staff (on left)

Academic Information (middle)

Faculty Pages (right)
\[ 3(x-4) = 4-2(x+2) \]

\[ 3x - 12 = 4 - 2x - 4 \]

\[ 3x - 12 = -2x + 4 \]

\[ +12x + 3x + 12 \]

\[ 5x = 12 \]

\[ x = \frac{12}{5} \]

Check:

\[ 3 \left( \frac{12}{5} - 4 \right) = 4 - 2 \left( \frac{12}{5} + 2 \right) \]

\[ 3 \left( \frac{12}{5} - \frac{20}{5} \right) = 4 - 2 \left( \frac{12}{5} + \frac{10}{5} \right) \]

\[ 3 \left( -\frac{8}{5} \right) = 4 - 2 \left( \frac{22}{5} \right) \]

\[ -\frac{24}{5} = \frac{20}{5} - \frac{44}{5} \]

\[ -\frac{24}{5} = -\frac{24}{5} \quad \text{It checks!!} \]
26. Solve for $y$:

\[
\frac{3x}{2} + 5y = \frac{1}{3}
\]

\[
-\frac{3}{2}x - \frac{3}{5}x = -\frac{3}{5}
\]

\[
\frac{1}{5}(5y) = \left(-\frac{3}{2}x + \frac{1}{3}\right) \frac{1}{5}
\]

\[
y = -\frac{3}{10}x + \frac{1}{15}
\]
Solve an inequality

mult/divide by a negative #
the sense or direction of the inequality changes.

Solve: \(-2x - 5 \geq 6\)

\[
\begin{align*}
-2x & \geq 11 \\
\frac{-2x}{-2} & \leq \frac{11}{-2} \\
x & \leq -\frac{11}{2}
\end{align*}
\]

Title: Sep 7-12:08 PM (6 of 8)
\[ P = \text{amt} \times 10\% \\
x = \text{amt} \times 18\% \\
x + y = 145,600 \]

\[ 10x + 0.18y = 20,000 \]

\[ \begin{align*} 
   x + y &= 145,600 \\
   10x + 0.18y &= 20,000 \\
   x &= 145,600 - y \\
   10(145,600 - y) + 0.18y &= 20,000 \\
   1,456,000 - 10y + 0.18y &= 20,000 \\
   -1456000 &= -1456000 \\
   8y &= 544,000 \\
   y &= 68,000 @ 18\% \\
   x &= 145,600 - 68,000 \\
   x &= 77,600 @ 10\% \\
\end{align*} \]
Tuesday

Buy book
Read handouts
Read 1.1
Do 1.1 Those assigned

Try to get those class notes on web page.