1-30 long essays upon live fun class activity.

1-31 a) The birth certificate proves that Jude is Molly's son.
   The newspaper clipping shows that Jeremiah
   is Jude's brother, so Jeremiah must also be
   Molly's son. No descent's permit shows
   that Jeremiah Martin is my father. Thus,
   I am Molly's grandson.

   \[
   \begin{align*}
   34x - 18 &= 10x - 9 & 4x - 5 &= 4x + 10 \\
   +10x & -10x & -4x & -4x \\
   24x - 18 &= -9 & -5 &= 10 \\
   +18 & +18 & \quad \text{NO SOLUTION}
   \\
   24x &= 9 \\
   24 & 24
   \end{align*}
   \]
   \[
   \begin{align*}
   x = \frac{9}{24} = \frac{3}{8} = 0.375
   \end{align*}
   \]

   c) \(3(x - 5) + 2(3x + 1) = 45\)
   \[
   \begin{align*}
   3x - 15 + 6x + 2 &= 45 \\
   9x - 13 &= 45 \\
   +13 & +13 \\
   9x &= 58 \\
   9 & 9
   \end{align*}
   \]
   \[
   \begin{align*}
   x &= \frac{58}{9} \\
   \end{align*}
   \]

1-33 Yes, the plants will be dead. If the plants are indoor,
they will be dead because he will be gone for 2 weeks
and so he did not water them at least once a week.
If he left them outdoors, they will still be dead because
it has not rained for 2 weeks, so he needed to
water them once a week or well.

1g4
1.34
a) \[ 3x - 3y = 12 \]
\[ \begin{array}{c}
-2x \\
-2x
\end{array} \]
\[ \frac{-3y}{3} = \frac{-2x + 12}{3} \]
\[ y = -\frac{2}{3}x - 4 \]
b) \[ 5x + 2y = 7 \]
\[ \begin{array}{c}
-5x \\
-5x
\end{array} \]
\[ \frac{2y}{2} = \frac{-5x + 7}{2} \]
\[ y = -\frac{5}{2}x + \frac{7}{2} \]

1.35
x + 3
\[ \frac{2x}{x+3} \]
b) \[ 6x + 6 = 78 \]
So
\[ \frac{-3}{-6} = \frac{3}{6} \]
\[ x = 12 \]
a) \[ 2x = 2(12) = 24 \]
\[ \frac{5x}{24 \times 15} \]
b) \[ A = 24 \times 15 \]
c) \[ A = 24 + 15 \]
\[ A = 360 \text{ sq cm} \]

1.36
a) \[ x = 7 \]
\[ \frac{c}{7} = c \]
\[ 2y - 2 \]