

Corrections for #2 on Writing Project #1

We got this far:

$$x = \frac{-585 \pm 1391}{3224}$$

$$\begin{aligned} \rightarrow \frac{-585 + 1391}{3224} &= \frac{806}{3224} = \frac{2 \cdot 13 \cdot 31}{2^3 \cdot 13 \cdot 31} = \frac{1}{2^2} = \frac{1}{4} = .25 \\ \downarrow \frac{-585 - 1391}{3224} &= \frac{-1976}{3224} = \frac{-2^3 \cdot 13 \cdot 19}{2^3 \cdot 13 \cdot 31} = \frac{-19}{31} \approx -.6192 \end{aligned}$$

$x \in \left\{ .25, -.6192 \right\}$ to 4 places

$x \in \left\{ \frac{1}{4}, -\frac{19}{31} \right\}$ to be precise for

two bonus

$$\begin{array}{r} 2 \overline{)806} \\ 13 \overline{)403} \\ \quad 31 \end{array}$$

$$\begin{array}{r} 2 \overline{)3224} \\ 2 \overline{)1612} \\ 2 \overline{)806} \\ 13 \overline{)403} \\ \quad 31 \end{array}$$

$$\begin{array}{r} 2 \overline{)1976} \\ 2 \overline{)988} \\ 2 \overline{)494} \\ 13 \overline{)247} \\ \quad 19 \end{array}$$