

WED: Math Lab Randolph
 10-12 CAN TAKE OPTIONAL
 2-5 MIDTERM AT TEST CENTER
 or
 Math Lab during my hours

8.2 - 2nd half

$$\begin{array}{r} a-2=7 \\ +2 \quad +2 \\ \hline a=9 \end{array}$$

$$\begin{array}{r} 9-2=7 \\ 7=7 \\ \text{Eureka!} \end{array}$$

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$$\begin{array}{r} y+6-2=8-9 \\ y+6+(-2)=8+(-9) \\ y+4=-1 \\ +(-4) \quad +(-4) \\ \hline y=-5 \end{array}$$

$$\begin{array}{r} -5+6-2=8-9 \\ 1-2=-1 \\ 1+(-2)=-1 \\ -1=-1 \end{array}$$

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$$\begin{array}{r} -6-7=x+2 \\ -6+(-7)=x+2 \\ -13=x+2 \\ +(-2) \quad +(-2) \\ \hline -15=x+0 \\ -15=x \\ -15=-15 \end{array}$$

$$\begin{array}{r} 2+(-2)=0 \\ x^2 \\ x^3 \\ x+2 \end{array}$$

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$$\begin{array}{l} a - \frac{2}{3} = \frac{5}{6} \\ a + (-\frac{2}{3}) = \frac{5}{6} \\ +\frac{2}{3} = \frac{2}{3} \\ a + 0 = \frac{5}{6} + \frac{2}{3} \\ a = \frac{5}{6} + \frac{4}{6} \\ a = \frac{9}{6} \\ = \frac{3}{2} \\ a = 1\frac{1}{2} \end{array}$$

Check

$$\begin{array}{l} 1\frac{1}{2} - \frac{2}{3} = \frac{5}{6} \\ 3 \cdot \frac{3}{2} - \frac{2}{3} = \frac{5}{6} \\ 3 \cdot \frac{3}{2} - \frac{4}{6} = \frac{5}{6} \\ \frac{9}{6} - \frac{4}{6} = \frac{5}{6} \\ \frac{5}{6} = \frac{5}{6} \end{array}$$

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$$\begin{array}{l} 5(3a-4) - 14a = 25 \\ 15a - 20 - 14a = 25 \\ 15a - 14a - 20 = 25 \\ 15a + (-14a) - 20 = 25 \\ 1a - 20 = 25 \\ a + (-20) = 25 \\ +20 \quad +20 \\ \hline a + 0 = 45 \\ a = 45 \end{array}$$

check

$$\begin{array}{l} 5(3 \cdot 45 - 4) - 14 \cdot 45 = 25 \\ 5(135 - 4) - 630 = 25 \\ 5(131) - 630 = 25 \\ 655 - 630 = 25 \\ 25 = 25 \end{array}$$

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