

: pg 160-161 : 19-35(10); 40

19 19

21 14

23 3

25 21

27 -1

29 -4

31 -1

33 $\frac{1}{2}$

35 1

40 $20 + 3n = 5n$

$n = 10$

Be a member if more
than 10 times

Review

Simp.

↳ Dist.

Prop.

↳ Comb.

Like Terms.

collect the
Variables All onto
One Side

Inverse operations
Get 'x' by itself

(35)

$$\frac{3}{4}(24 - 20t) + 9t = 2(5t + 1)$$

$$\frac{3}{4}(\cancel{24}) - \frac{3}{4}(\cancel{20t}) + 9t = 2(5t) + 2(1)$$

$$18 - 15t + 9t = 10t + 2$$

$$18 - 6t = 10t + 2$$

$$18 = 16t + 2$$

$$\underline{-2} \quad \underline{-2}$$

$$\underline{16} = \underline{16t}$$

$$16 \quad 16$$

$$\underline{\underline{1}} = \underline{\underline{t}}$$

3.6. Solving Decimal Equations

Dec. 11, 2006

$$\begin{array}{r} -38x - 39 = 118 \\ +39 \quad +39 \\ \hline \end{array}$$

$$\begin{array}{r} -38x = 157 \\ -38 \quad -38 \\ \hline \end{array}$$

Round to
2 Decim. Plus

Exact
Ans. ←

$$x = -\frac{157}{38}$$

-157/38
-4.131578947
↑
1 < 5 so...

Approx.

Ans. ←

$$x \approx -4.13$$

You Must Have & Label Both!

$$\text{ex 2)} \quad 24x + 43 = 66$$

$$\quad \quad \quad \underline{-43} \quad \underline{-43}$$

$$\quad \quad \quad \underline{24x} = \underline{23}$$

$$\quad \quad \quad \underline{24} \quad \quad \underline{24}$$

Exact
Ans.

$$\leftarrow x = \frac{23}{24}$$

Approx
Ans.

$$\leftarrow x \approx .96$$

23/24
.958333
-9
8 > 5 so...

ex 3) $3.5x - 37.9 = -2x$

$$\begin{array}{r} -2x \\ \hline 3.3x - 37.9 = 0 \end{array}$$

$$\begin{array}{r} +37.9 \quad +37.9 \\ \hline 3.3x = 37.9 \\ \hline 3.3 \quad 3.3 \end{array}$$

37.9/3.3
11.48484848

↑

4 < 5

So...

Approx
Ans ←

$$x \approx 11.48$$

=====

3 people want to share
a Pizza that cost
\$12.98. How much does
each Pay?

$$\frac{3x}{3} = \frac{12.98}{3}$$

$$\underline{\underline{x \approx 4.33}}$$

O.T.L.

① Pg 166: 7-14(a)

21-29(o) : exact Ans.
+ Approx Ans.

~~31-35(o); 34~~

Approx Ans only

$$\textcircled{19} \quad 3(x+6) = 5(x-4)$$