Pg. 166: 2-14(a); 21-29(a); 31-35(a): 34

(2) B

(3) equal to

(4) is approximately equal to

(5) does it equal?

(6) does not equal or is unequal to

(7) 23.4

(8) 108.2

(9) -139

(10) 63.0

(11) 561

(12) 0.6

(13) 8.8

(14) -75.1

(21) 5.78

(23) 7.57

(25) 4.33

(27) 0.77

(29) 2.22

(31) 0.94

(33) 0.42

(34) 0.61

(35) -2.63

(35)

$8.79x - 6.54 = 6.48 + 13.75x$

$-8.79x \qquad -8.79x$

$-6.54 = 6.48 + 4.96x$

$-6.48 \qquad -6.48$

$-13.02 = 4.96x$

$\frac{-13.02}{4.96} = \frac{4.96x}{4.96}$

$-2.63 \approx x$

**-2.625**

$5 \geq 5$

so... $2 \rightarrow 3$

Review for Quiz **Oct. 18, 2006**

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Quiz Tomorrow,

Oct. 19, 2006

3.1 - Solve Equ. w/ Add + Subt.

3.2 - Solve Equ. w/ Multi. + Divi.
- ↳ Recip.

3.3 - Multi. Step. Equ.

3.4. - Variable on Both Sides and More

3.6. Decim.
- ↳ exact + Approx
- ↳ Approx. only

## Concepts to Remember

**The Goal:** to get the Variable By Itself.

What ever we do to one side of the equal sign

We Must do to the other side

a.k.a.: The Rotten Kid Theory

# The Questions:

- Where is the Variable?
- What is happening to it Right Now?
- What is the opposite operation?
- Do it!

***The Process: ****

## The 4 Steps + Defins to Solve Equations

1. **Simplify**: a) No Grouping Symbols
   b) Combine Like Terms
2. **Collect the Variables**: Get all the Variables to One Side
   a.k.a.: The Happy Dance!
3. **Inverse Operations**: Do the Reverse "Order of Operations"; what ever you Must, to get the Variable by itself.
4. **Check**: Plug the Value for the Variable into the equation to See if it works.

$\frac{3}{4}(x+8)=9$

$\frac{3}{4}(x)+\frac{3}{4}(8)=9$

$\frac{3}{4}x+6=9$

$-6 \quad -6$

$\frac{4}{3}\left(\frac{3}{4}x\right)=3\cdot\frac{4}{3}$

$x=4$

Use the Dist. prop or the Recip.

$\frac{4}{3}\left(\frac{3}{4}(x+8)\right)=9\cdot\frac{4}{3}$

$x+8=12$

$-8 \quad -8$

$x=4$

$\frac{3}{4}(4x+8)+7x=2x+7$ Dist. Prop.

$\frac{3}{4}(4x)+\frac{3}{4}(8)+7x=2x+7$

$3x+6+7x=2x+7$

$10x+6=2x+7$

$-2x \quad -2x$

$8x+6=7$

$-6 \quad -6$

$\frac{8x}{8}=\frac{1}{8}$

$x=\frac{1}{8}$

Really Know the

- 1 Solution
- No Solution
- Identity

(33) $4.65x - 4.79 = 6.84x$

Study +

Know Everything