

Warmup

1. $-2x + 10 = 4$

$x = \underline{\hspace{2cm}}$

2. Calculate:

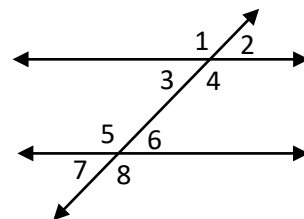
$-6P - -10P = \underline{\hspace{2cm}}$

$3P - 3P = \underline{\hspace{2cm}}$

3. Calculate the value of $\angle 3$:

$\angle 3 = 15x + -82$

$\angle 4 = 7x + 108$



I. Variables on Each Side of an Equation

$5x + 9 = 4x$

When variable terms are on both sides of the equation, move all the variable terms to the same side.

Solve and Check:

$-4x = -63 + 3x$

Solve and Check:

$-5x = 10 + -4x$

Solve and Check:

$-3x + -10 = 4x$

Solve and Check:

$-4x + -40 = -9x$

4. Solve and Check:

$$4x = -9 + 7x$$

5. Solve and Check:

$$6x - 80 = -4x$$

II. Variables and Numbers on Each Side of an Equation

$$5x + 9 = 15 + 4x$$

Solve and Check:

$$-5x + 13 = -27 + 3x$$

Solve and Check:

$$-4x + 14 = -2x + 4$$

6. Solve and Check:

$$7x + 12 = 84 - 5x$$

7. Solve and Check:

$$9x + 25 = 3x + 73$$

III. Multiple Variable Terms and Numbers on Each Side of an Equation

Solve and Check:

$$-5x + 2x + 14 = 4x + -28$$

Solve and Check:

$$-1x + 14 + 5x = -3x + 28$$

8. Solve and Check:

$$4x + 9x + 15 = 7x + 39$$

9. Solve and Check:

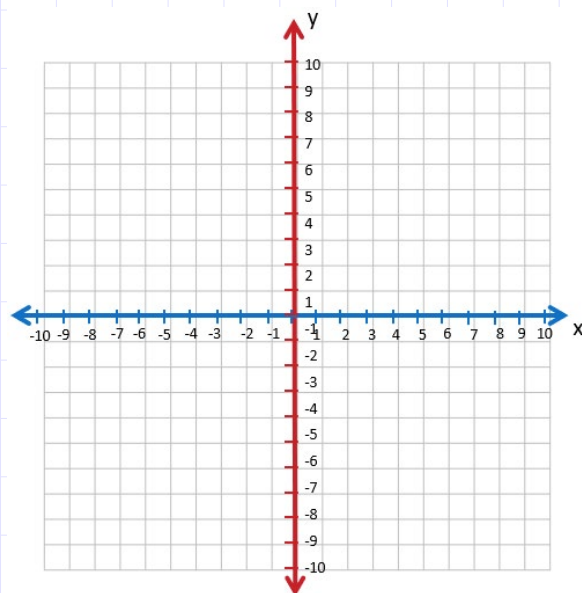
$$6x + 7 + 4x = 2x + -73$$

V. Practice

10

11

12



13

14

15

16

17

18

19

20

21

22