Week 6 Homework

Assignment due Friday!!

Solve each equation.

Name _Answers Only_

Date _____ Period ___

1) $4x - 5 - 1 = 10$

$$x = 4$$

2) $18 = 3x - 6x$

$$x = -6$$

3) $-\frac{5}{4}p + \frac{3}{5}p = -\frac{13}{12}$

$$p = 5/3$$

4) $-\frac{1}{2}x + \frac{3}{2} - \frac{3}{2}x = \frac{1}{6}$

$$x = 2/3$$

5) $4(6x - 3) = -108$

$$x = 4$$

6) $-102 = -6(6p + 5)$

$$p = 2$$

7) $48 = -6(3n - 4) + 3(n + 3)$

$$n = -1$$

8) $-(2m + 1) - 5(-1 + 3m) = -13$

$$m = 1$$

9) $5r = r + 4$

$$r = 1$$

10) $12 - 6a + 4a = a + 3$

$$a = 3$$

11) $-5x - 9 = -5(x + 3)$

$$\text{No Solution}$$

12) $-30 - 4m = -4(m + 6) - 6$

$$Ims$$

13) Perry won 45 super bouncy balls playing horseshoes at the county fair. At school he gave two to every student in his math class. He only has 3 remaining. How many students are in his class?

$$21 \text{ students}$$

14) Jimmy rented a bike from Krystal's Bikes. It cost $18 plus $6 per hour. If Jimmy paid $60, then he rented the bike for how many hours?

$$7 \text{ hours}$$

15) You had $21 to spend on two notebooks. After buying them you had $17. How much did each notebook cost?

$$\$2 \text{ for each notebook}$$

16) 219 students went on a field trip. Four buses were filled and 27 students traveled in cars. How many students were in each bus?

$$\text{Each bus was } 48 \text{ students}$$

17) You had $23.70 to spend on two raffle tickets. After buying them you had $17.90. How much did each raffle ticket cost?

$$\$2.90 \text{ for each raffle ticket}$$

18) Castel spent half of his weekly allowance playing mini-golf. To earn more money his parents let him clean the gutters for $5.46. What is his weekly allowance if he ended with $12.66?
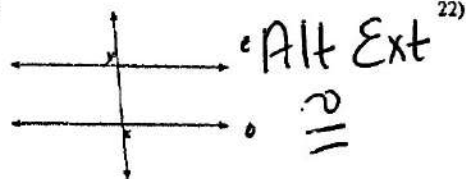
$$\text{allowance was } \$14.40$$

19) The Cooking Club made some pies to sell during lunch to raise money for a field trip. The cafeteria helped by donating two pies to the club. Each pie was then cut into five pieces and sold. There were a total of 45 pieces to sell. How many pies did the club make?

$$p = 7$$
$$7 \text{ pies}$$

20) Krystal wanted to make note cards by cutting pieces of paper in half. Before starting she got four more pieces to use. When she was done she had 28 half-pieces of paper. With how many pieces did she start?
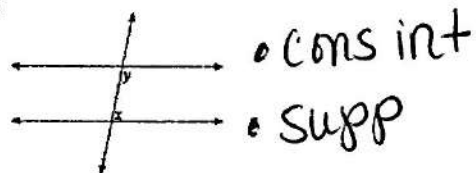
$$\text{Started with } 10 \text{ pieces}$$
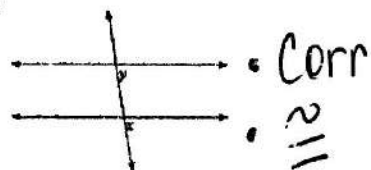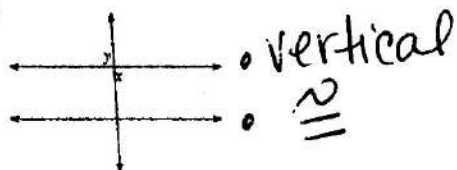
Identify the type of angle pair and the relationship.

21)
• Alt Ext
• ≅ ‖

22)
• cons int
• supp

23)
• Corr
• ≅ ‖

24)
• vertical
• ≅

25)
• Alt ext
• ≅

26)
• corr
• ≅

27)
• vertical
• ≅

28)
• corr
• ≅ ‖
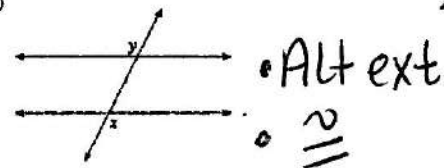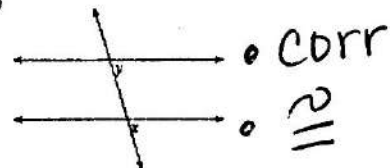
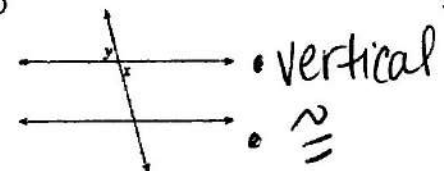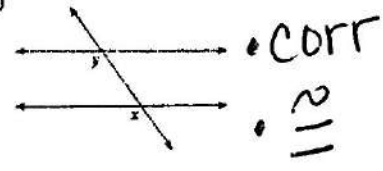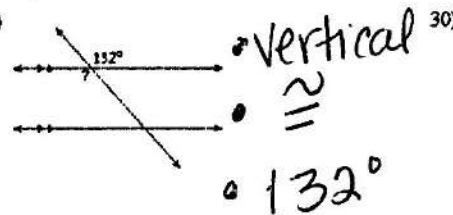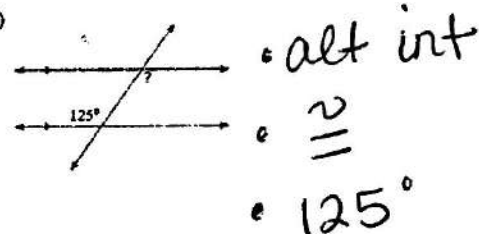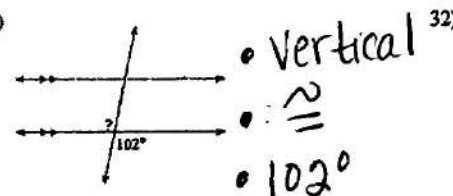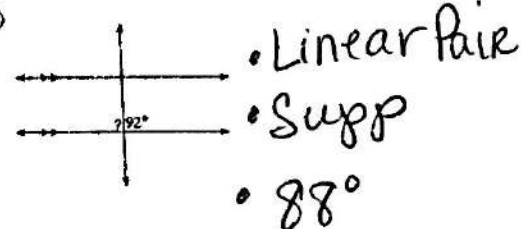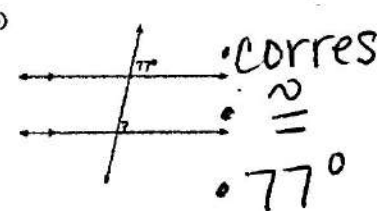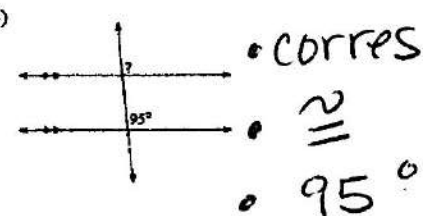**Identify the type of angle pair, the relationship, and the measure of the missing angle.**

29) 152°
• Vertical
• ≅
• 132°

30) 125°
• alt int
• ≅
• 125°

31) 102°
• Vertical
• ≅
• 102°

32) 92°
• Linear Pair
• Supp
• 88°

33) 77°
• corres
• ≅
• 77°

34) 95°
• corres
• ≅
• 95°

35) 66°
• cons. int.
• Supp
• 114°

36) 67°
• vertical
• ≅
• 67°