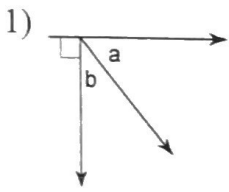
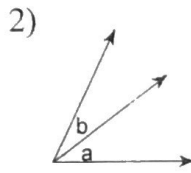


Unit 8 - Final Exam Review #2

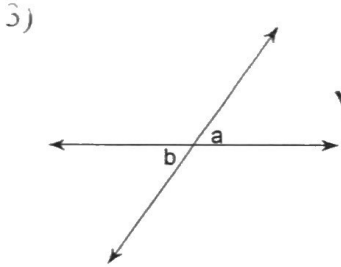
Name the relationship: complementary, linear pair, vertical, or adjacent.



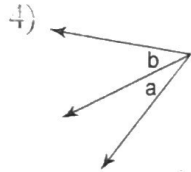
complementary



adjacent

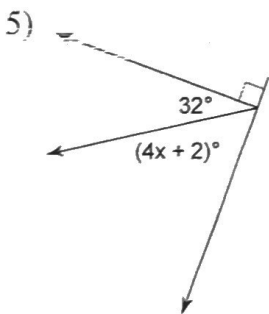


vertical



adjacent

Find the value of x.

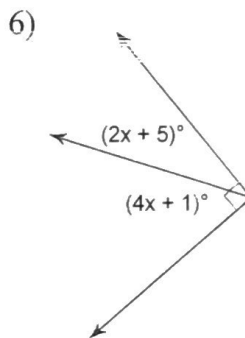


$$32 + 4x + 2 = 90$$

$$4x + 34 = 90$$

$$4x = 56$$

$$x = 14$$

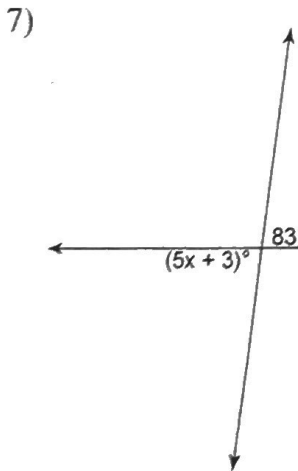


$$2x + 5 + 4x + 1 = 90$$

$$6x + 6 = 90$$

$$6x = 84$$

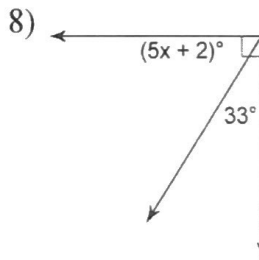
$$x = 14$$



$$83 = 5x + 3$$

$$80 = 5x$$

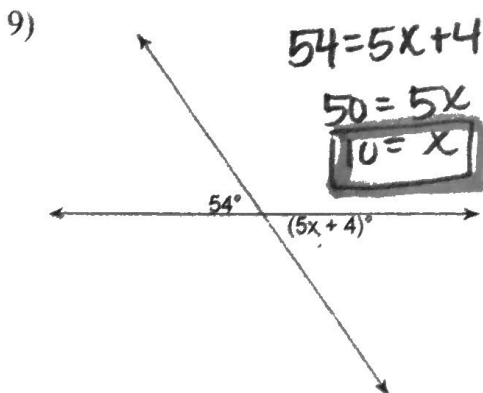
$$16 = x$$



$$5x + 35 = 90$$

$$5x = 55$$

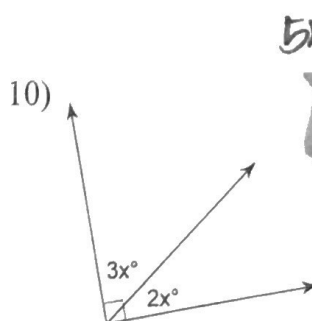
$$x = 11$$



$$54 = 5x + 4$$

$$50 = 5x$$

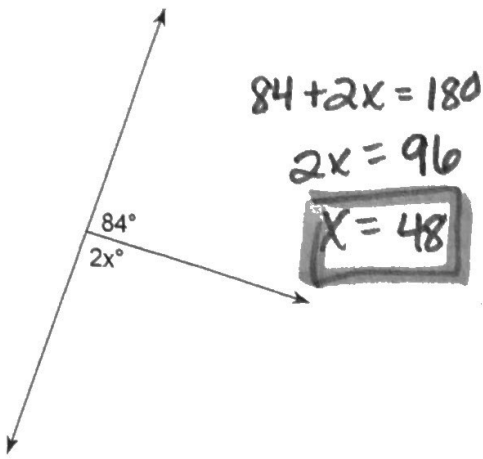
$$10 = x$$



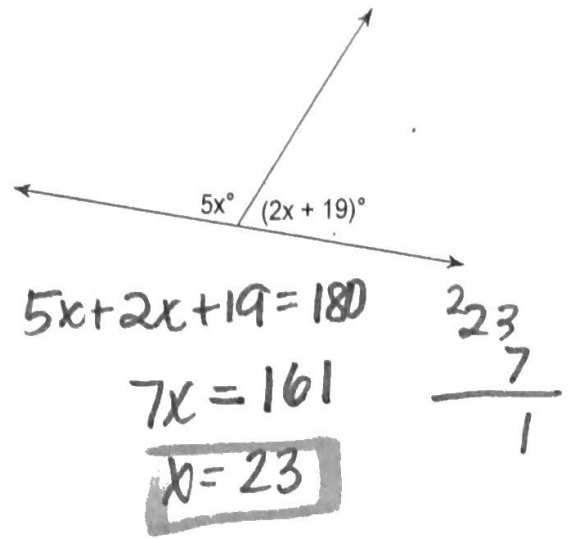
$$5x = 90$$

$$x = 18$$

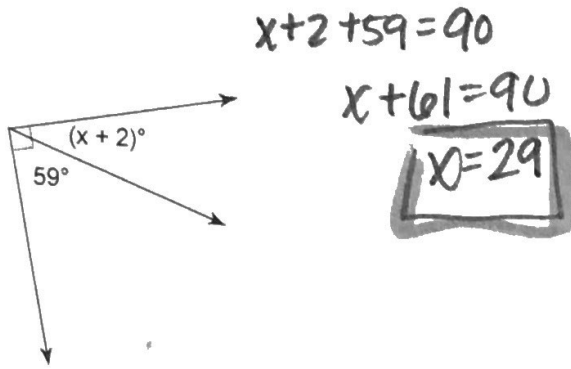
11)



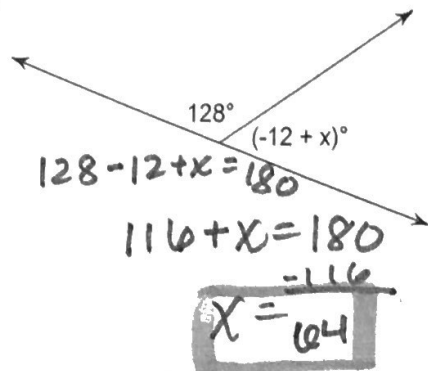
12)



13)

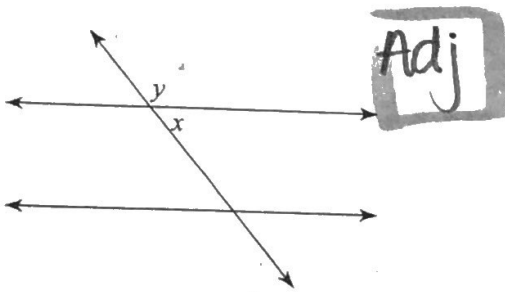


14)

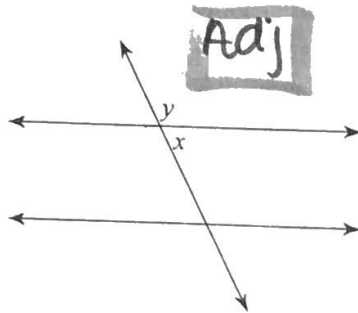


Identify each pair of angles as corresponding, alternate interior, alternate exterior, same-side interior, vertical, or adjacent.

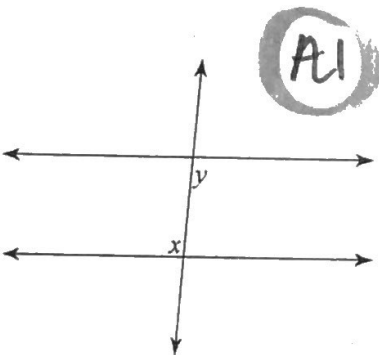
15)



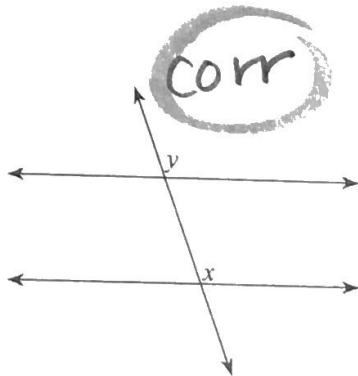
16)



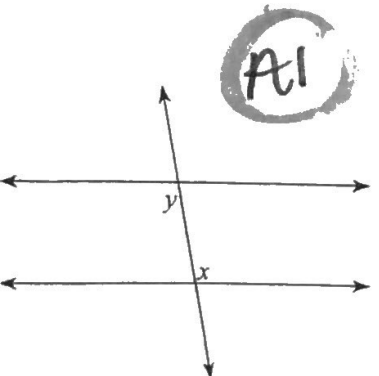
17)



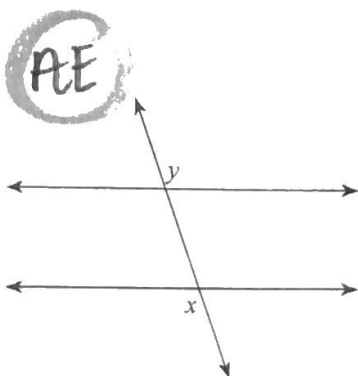
18)



19)

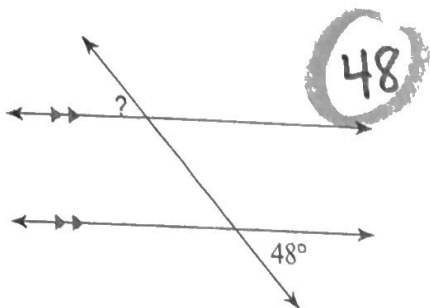


20)

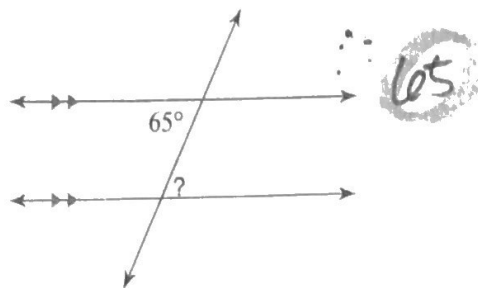


Find the measure of each angle indicated.

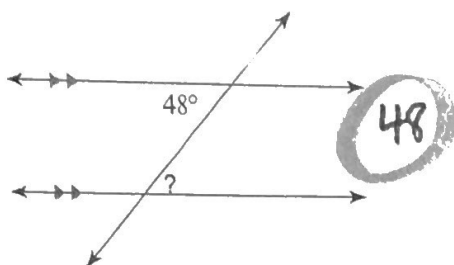
21)



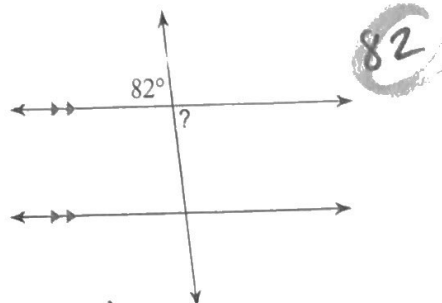
22)



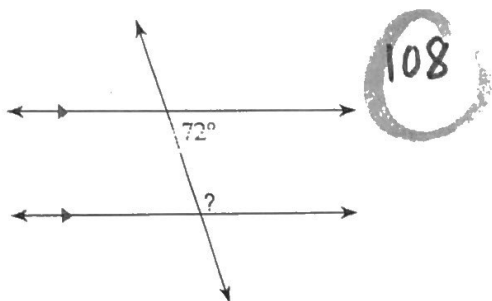
23)



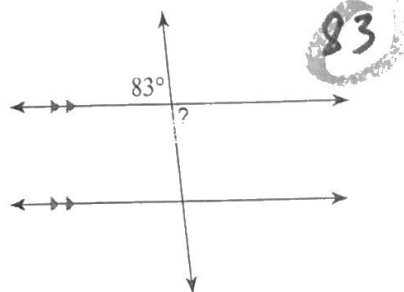
24)



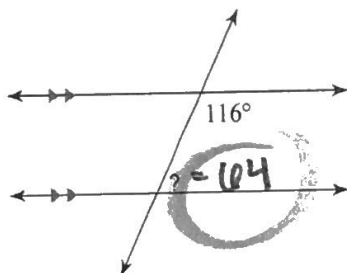
25)



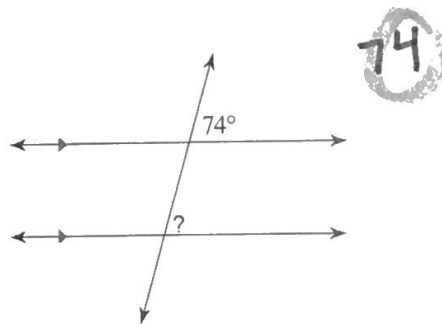
26)



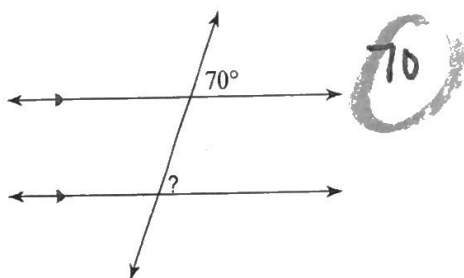
27)



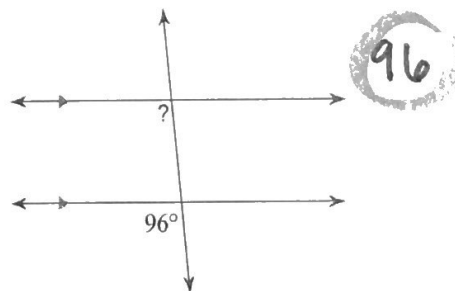
28)



29)

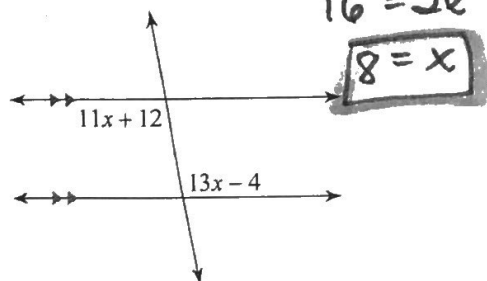


30)



Solve for x.

31)

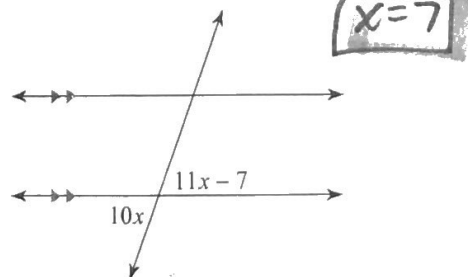


$$11x + 12 = 13x - 4$$

$$16 = 2x$$

$$8 = x$$

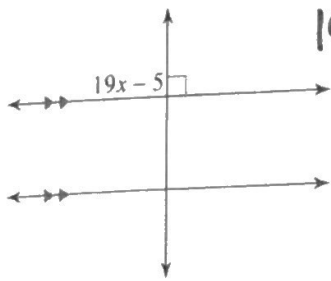
32)



$$11x - 7 = 10x$$

$$x = 7$$

33)

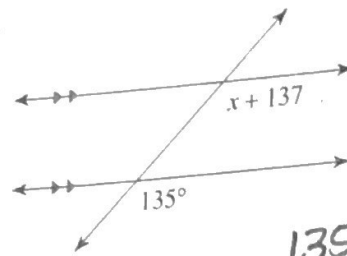


$$19x - 5 = 90$$

$$19x = 95$$

$$x = 5$$

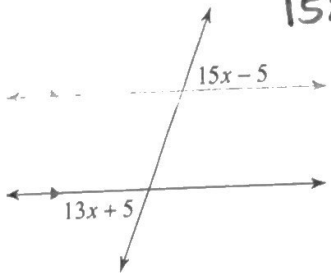
34)



$$135 = x + 137$$

$$x = -2$$

35)

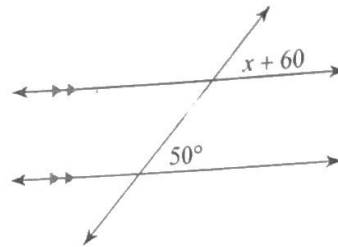


$$15x - 5 = 13x + 5$$

$$2x = 10$$

$$x = 5$$

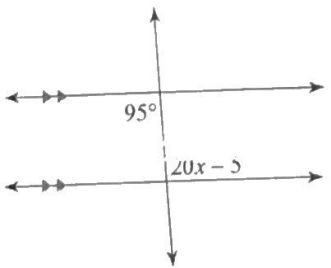
36)



$$x + 60 = 50$$

$$x = -10$$

37)

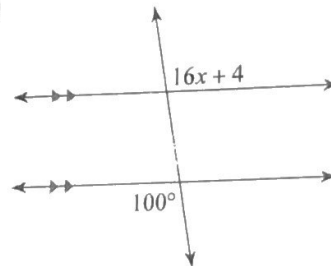


$$95 = 20x - 5$$

$$100 = 20x$$

$$x = 5$$

38)

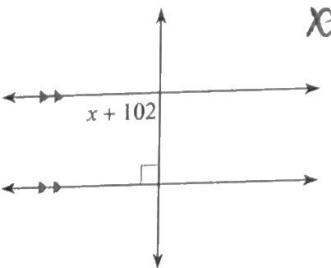


$$16x + 4 = 100$$

$$16x = 96$$

$$x = 6$$

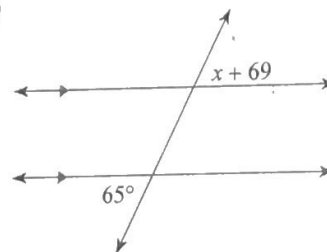
39)



$$x + 102 = 90$$

$$x = -12$$

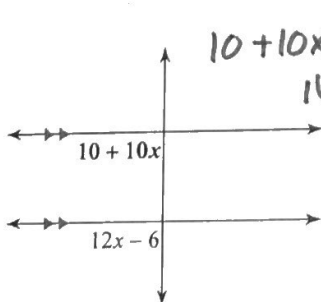
40)



$$x = -4$$

Find the measure of the angle indicated in bold.

41)



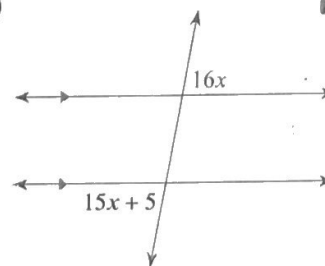
$$10 + 10x = 12x - 6$$

$$16 = 2x$$

$$x = 8$$

$$90^\circ$$

42)



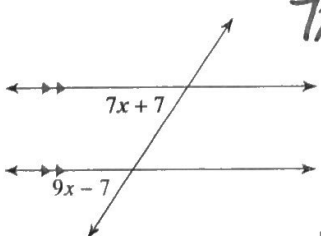
$$16x = 15x + 5$$

$$x = 5$$

$$15(5) + 5$$

$$80^\circ$$

43)



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

$$2x + 14 = 14$$

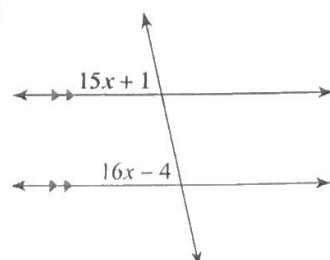
$$2x = 0$$

$$x = 7$$

$$49 + 7$$

$$56^\circ$$

44)

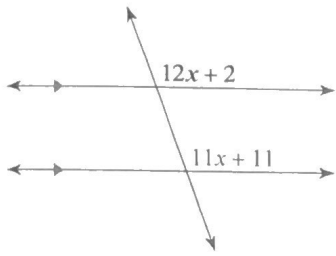


$$15x + 1 = 16x - 4$$

$$5 = x$$

$$76^\circ$$

45)



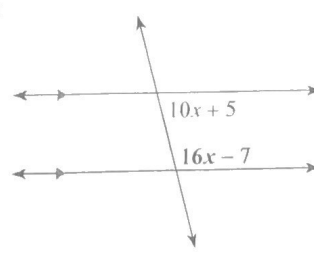
$$12x+2 = 11x+11$$

$$1x = 9$$

$$x = 9$$

$$\boxed{110^\circ}$$

46)



$$10x+5 + 16x-7 = 180$$

$$26x - 2 = 180$$

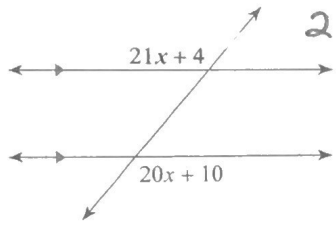
$$26x = 180$$

$$\boxed{x = 7}$$

$$16(7) - 7$$

$$\boxed{105}$$

47)

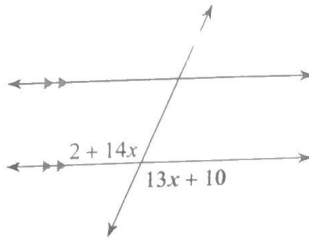


$$21x+4 = 20x+10$$

$$x = 6$$

$$\boxed{130^\circ}$$

48)

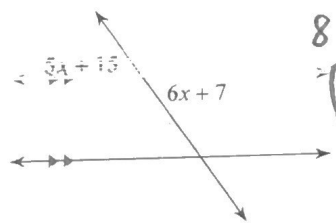


$$2+14x = 13x+10$$

$$+8 = x$$

$$\boxed{114^\circ}$$

49)

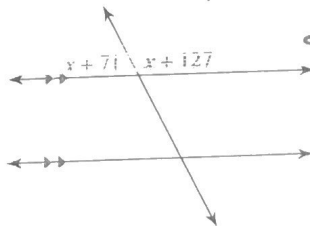


$$5x+15 = 6x+7$$

$$8 = x$$

$$\boxed{55^\circ}$$

50)



$$x+71 + x+127 = 180$$

$$2x + 198 = 180$$

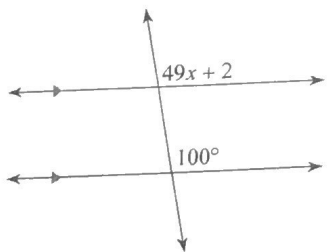
$$2x = -18$$

$$\boxed{x = -9}$$

$$\boxed{118^\circ}$$

Solve for x.

51)

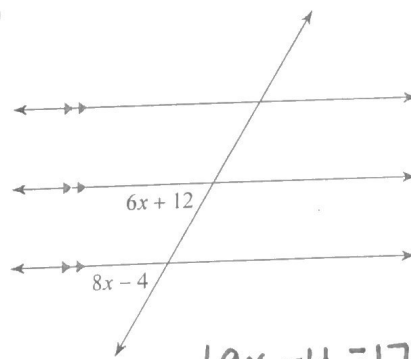


$$49x+2 = 100$$

$$49x = 98$$

$$\boxed{x = 2}$$

52)



$$6x+12 = 8x-4$$

$$2x = 16$$

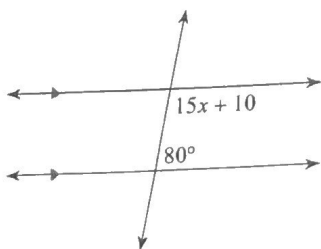
$$x = 8$$

$$19x-4 = 17x+8$$

$$2x = 12$$

$$\boxed{x = 6}$$

53)

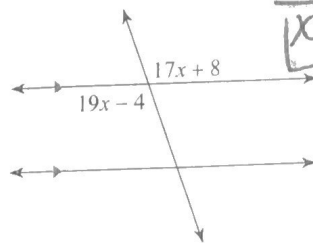


$$15x+10 + 80 = 180$$

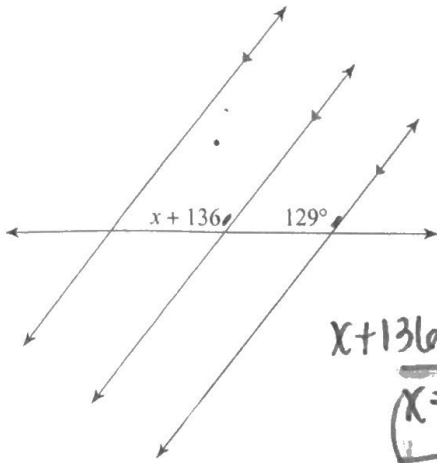
$$15x = 90$$

$$\boxed{x = 6}$$

54)



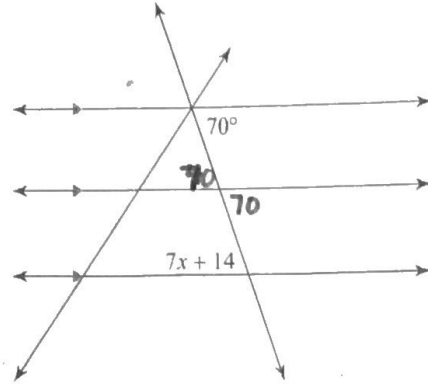
55)



$$x + 136 = 129$$

$$\boxed{x = -7}$$

56)

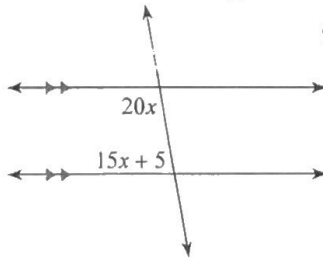


$$7x + 14 = 70$$

$$7x = 56$$

$$\boxed{x = 8}$$

57)

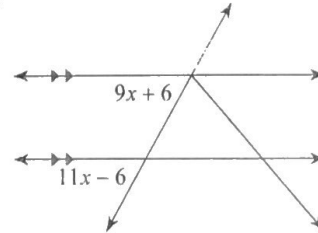


$$20x + 15x + 5 = 180$$

$$35x = 175$$

$$\boxed{x = 5}$$

58)

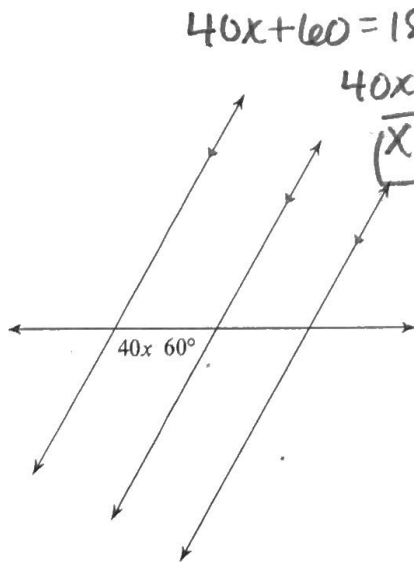


$$9x + 6 = 11x - 6$$

$$12 = 2x$$

$$\boxed{6 = x}$$

59)

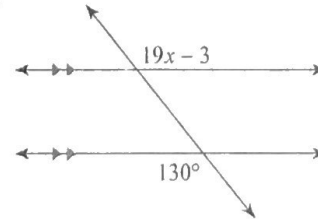


$$40x + 60 = 180$$

$$40x = 120$$

$$\boxed{x = 3}$$

60)



$$19x - 3 = 130$$

$$19x = 133$$

$$\boxed{x = 7}$$