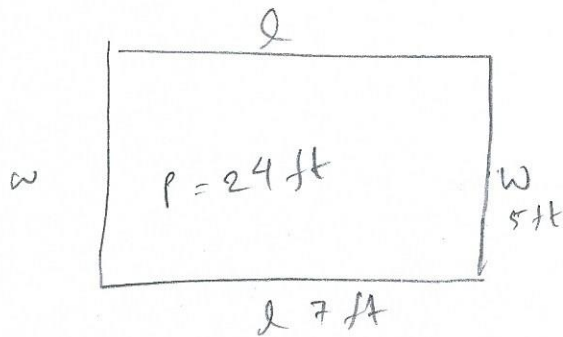


Book

41)



$$l = w + 2$$

$$2w + 2l = 24$$

$$2w + 2(w + 2) = 24$$

$$2w + 2w + 4 = 24$$

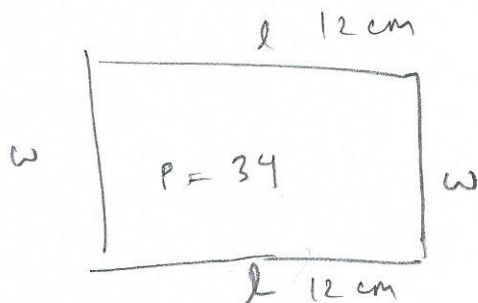
$$4w = 24 - 4$$

$$4w = 20$$

$$w = \frac{20}{4} = 5$$

$$w = 5 \text{ ft}$$

42)



$$2w + 2l = 34$$

$$w = l - 7 \quad l = 12 \text{ cm}$$

$$2(l - 7) + 2l = 34$$

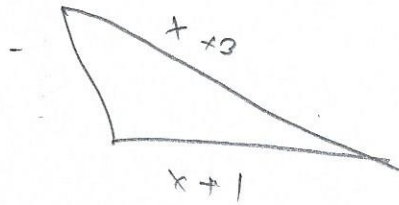
$$2l - 14 + 2l = 34$$

$$4l = 34 + 14$$

$$4l = 48$$

$$l = 12$$

48)

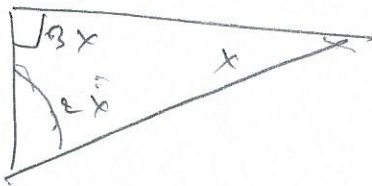


$$x + x + 1 + x + 3 = 16$$

$$x + x + x = 16 - 3 - 1$$

$$3x = 12$$

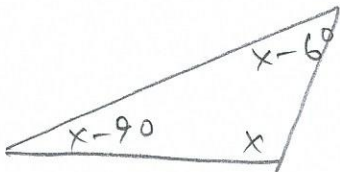
$$x = 4$$



$$x + 2x + 3x = 180$$

$$\frac{6x}{6} = \frac{180}{6}$$

$$x = 30$$

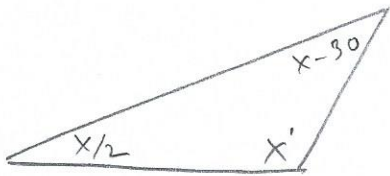


$$x + x - 90 + x - 60 = 180$$

$$x + x + x = 180 + 90 + 60$$

$$3x = 330$$

$$x = 110$$



$$\frac{x}{2} + \frac{2x}{2} + \frac{2(x-30)}{2} = 180$$

$$x + 2x + 2(x-30) = 360$$

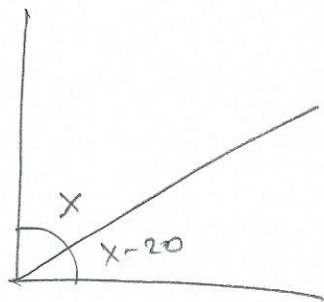
$$x + 2x + 2x - 60 = 360$$

$$5x = 360 + 60$$

$$5x = 420$$

$$x = 84$$

50)

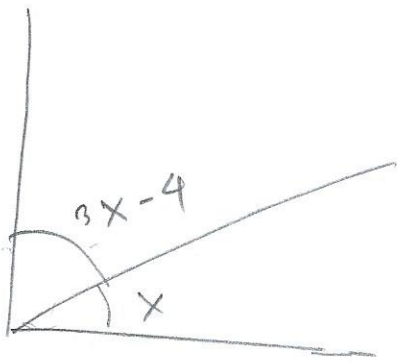


$$x + x - 20 = 90$$

$$2x = 90 + 20$$

$$2x = 110$$

$$x = 55$$



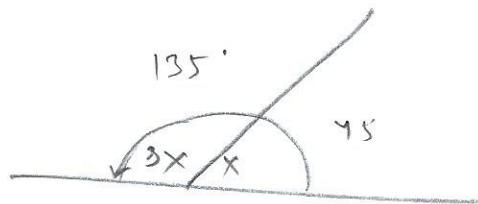
$$x + 3x - 4 = 90$$

$$4x = 90 + 4$$

$$4x = 94$$

$$x = 23.5$$

52)

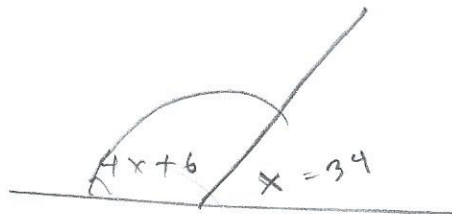


$$3x + x = 180$$

$$4x = 180$$

$$x = 45$$

53)



$$4x + 6 + x = 180$$

$$5x = 180 - 6$$

$$5x = 174$$

$$\therefore x = \frac{174}{5} = 34$$

55)

A diagram showing two intersecting lines. The upper line is labeled  $2x - 3 = 37$  and the lower line is labeled  $x + 17 = 37$ . The lines intersect at a point.

$$x + 17 = 2x - 3$$

$$x - 2x = -3 - 17$$

$$-x = -20$$

$$x = 20$$