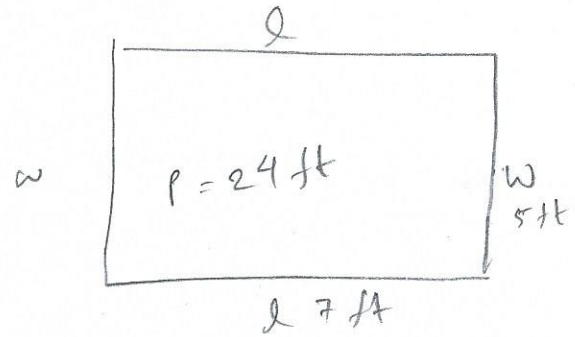
MATH 0370

Book

41)



$l = w + 2$

$2w + 2l = 24$

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

$2w + 2w + 4 = 24$

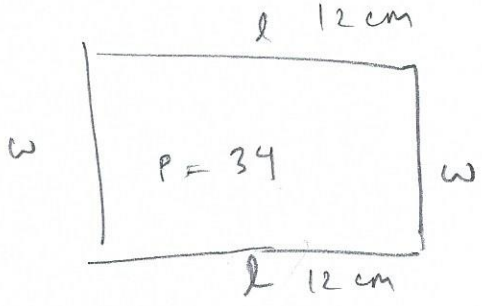
$4w = 24 - 4$

$4w = 20$

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

$w = 5$ ft

42)



$2w + 2l = 34$

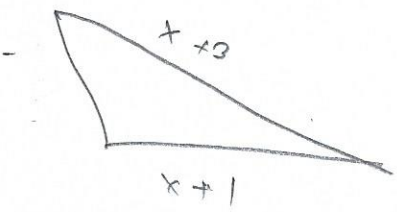
$w = l - 7 \cdot \quad l = 12$ cm

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

$2l - 14 + 2l = 34$

$4l = 34 + 14 \qquad 4l = 48 \qquad l = 12$

48)

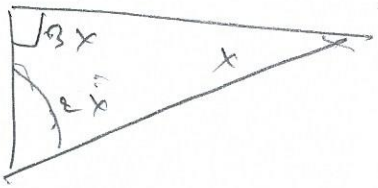


$x + x + 1 + x + 3 = 16$

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

$3x = 12$

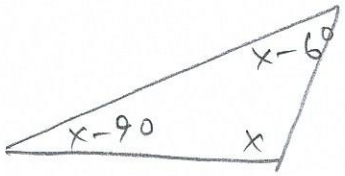
$x = 4$



$x + 2x + 3x = 180$

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

$x = 30$

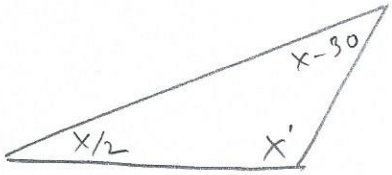


$x + x - 90 + x - 60 = 180$

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

$3x = 330$

$x = 110$



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

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

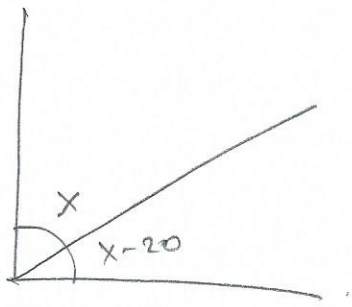
$$x + 2x + 2x - 60 = 360$$

$$5x = 360 + 60$$

$$5x = 420$$

$$x = 84$$

50)

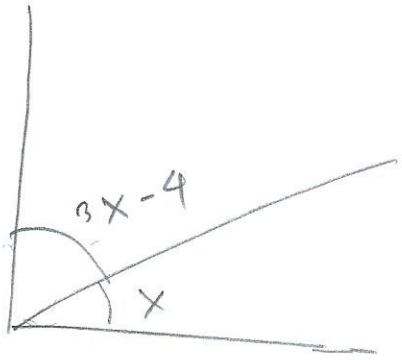


$$x + x - 20 = 90$$

$$2x = 90 + 20$$

$$2x = 110$$

$$x = 55$$



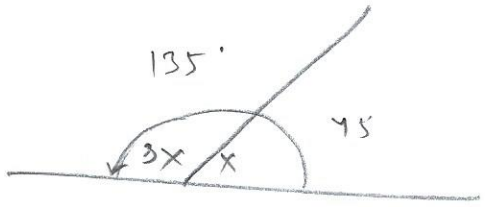
$x + 3x - 4 = 90$

$4x = 90 + 4$

$4x = 94$

$x = 23.5$

52)

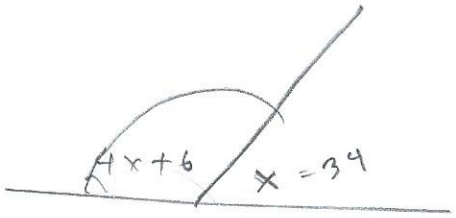


$3x + x = 180$

$4x = 180$

$x = 45$

53)



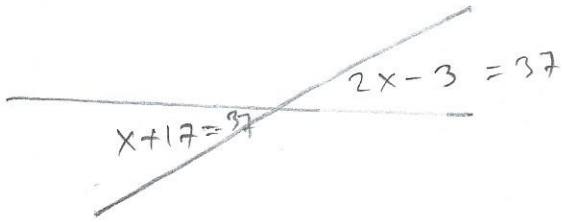
$4x + 6 + x = 180$

$5x = 180 - 6$

$5x = 174$

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

55)



$x + 17 = 2x - 3$

$x - 2x = -3 - 17$

$-x = -20$

$x = 20$