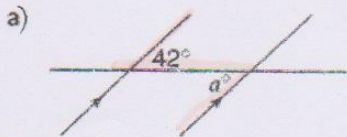


Angles Around Parallel Lines



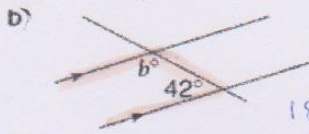
Find the value of the pronumeral.
Give a reason for each answer

Part 1



$$a = 42$$

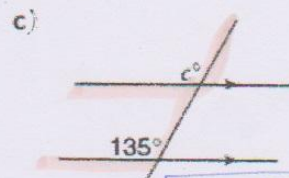
Alternate angles



$$b = 138$$

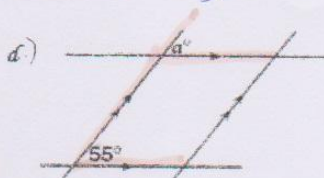
Cointerior angles

$$\begin{array}{r} 180 \\ 42 - \\ \hline 138 \end{array}$$



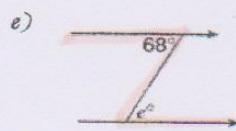
$$c = 135$$

Corresponding Angles



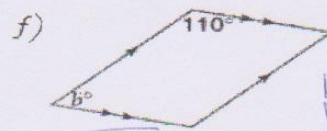
$$a = 55$$

Corresponding



$$c = 68$$

Alternate angles

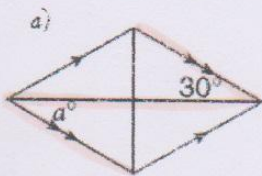


$$b = 70$$

Cointerior

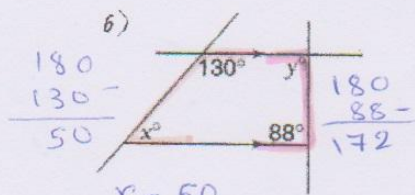
$$\begin{array}{r} 180 \\ 110 - \\ \hline 70 \end{array}$$

Part 2



$$a = 30$$

Alternate angles



$$x = 50$$

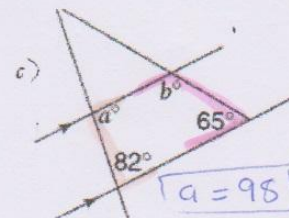
Cointerior

$$y = 172$$

Cointerior

$$\begin{array}{r} 180 \\ 130 - \\ \hline 50 \end{array}$$

$$\begin{array}{r} 180 \\ 88 - \\ \hline 172 \end{array}$$



$$a = 98$$

Cointerior angles

$$b = 115$$

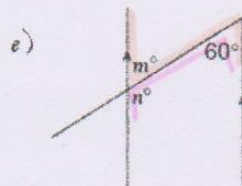


$$\alpha = 125$$

Corresponding angles

$$\beta = 125$$

Alternate with alpha



$$m = 60$$

Alternate angles

$$n = 120$$

Cointerior angles



$$a = 50$$

$$b = 50$$

Cointerior