

(1) Determine whether A, B and C is collinear or not:

(a) $A(1 ; 2)$, $B(3 ; 5)$ and $C(5 ; 7)$

(b) $A(-1 ; 3)$, $B(4 ; 0)$ and $C(14 ; 6)$

(2) M(-2 ; -4) , N(1 ; -3) , R(2 ; -1) , T(-3 ; -1) and K(3 ; -4)

(a) Determine which of the following lines are parallel and which are perpendicular:
MN , TK , RK , NR and TM

(b) Without calculating the angle of inclination, determine which of the lines in (a) have an acute angle of inclination.

(c) Calculate the angle of inclination of line TN.

[illegible]

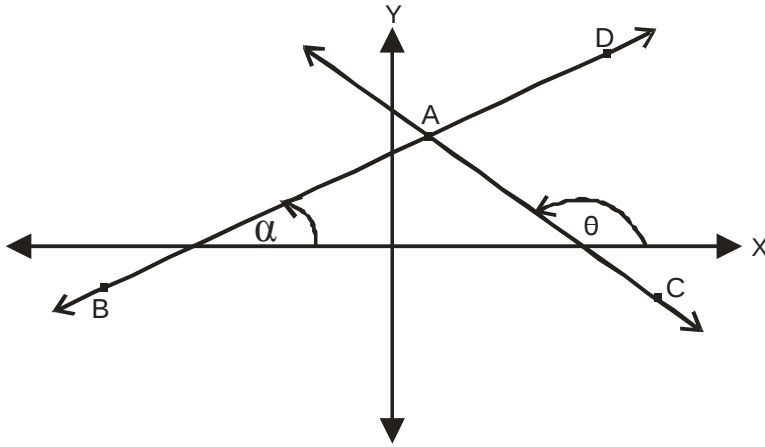
(3) $D(-3; -1)$, $E(0; -4)$, $F(-1; y)$, $G(x; 3)$ and $H(2; 2)$. Calculate the value of:

(a) x , if EG // DH

(b) y , if $FH \perp DE$

[illegible]

(4) Calculate $\mathbf{\hat{D}AC}$, correct to one decimal, with $\mathbf{A(2 ; 5)}$, $\mathbf{B(-6 ; -1)}$ and $\mathbf{C(7 ; -2)}$:

[illegible]