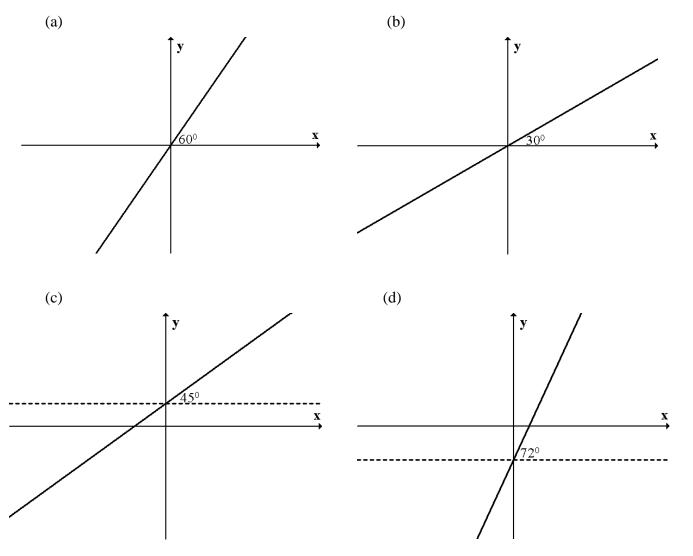
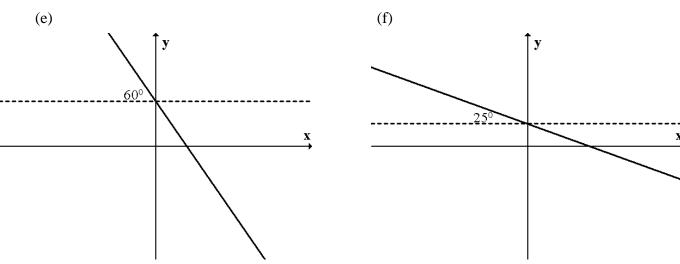
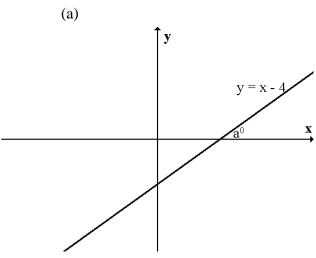
1. Calculate the gradient of each line below.

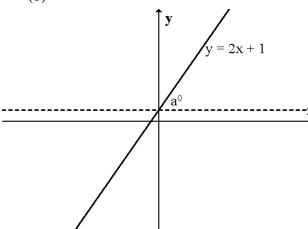


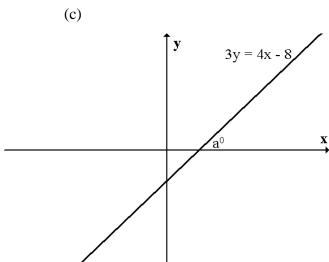


2. Calculate the size of angle a⁰ in each of the following.

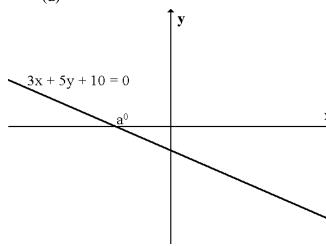


(b)

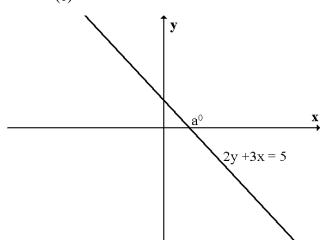


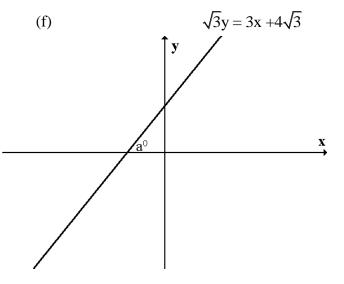


(d)

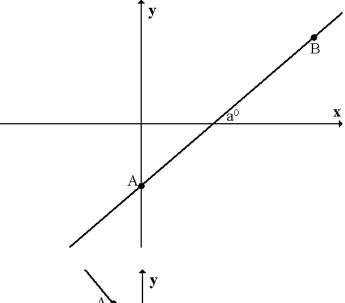


(e)

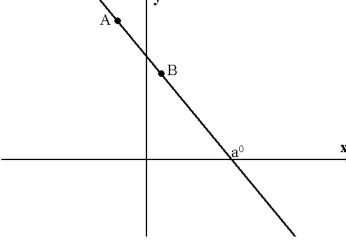




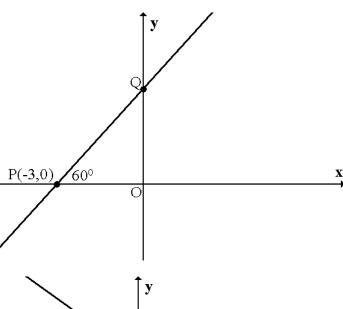
3. Find the size of angle a^0 that the line joining the points A(0,-2) and $B(4\sqrt{3},2)$ makes with the positive direction of the x-axis.



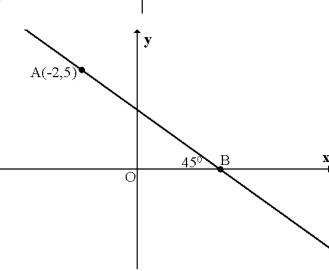
4. A is the point (-2, $5\sqrt{3}$) and B is (1, $2\sqrt{3}$). Calculate the size of angle a^0 .



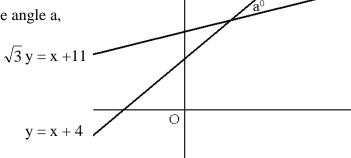
5. Find the equation of the line PQ where P is the point (-3,0) and angle QPO is 60° .



6. Find the equation of the line AB where A is the point (-2,5) and angle OBA is 45° .

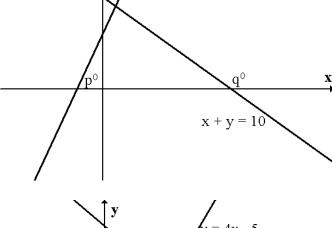


7. The two lines y = x + 4 and $\sqrt{3} y = x + 11$ are shown in the diagram. Determine the size of the acute angle a, between these two lines.

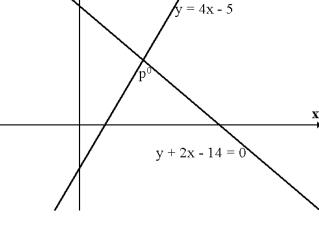


8. The lines y = 3x + 6 and x + y = 10 makes angles p^0 and q^0 with the positive direction of the x-axis, as shown.

Determine the size of the acute angle between the two given lines.



9. The diagram opposite shows the lines y = 4x - 5 and y + 2x - 14 = 0. Calculate the size of angle p^0 .



10. The diagram opposite shows the lines y = 2x + 6 and x + y + 8 = 0. Determine the size of angle a^0 .

