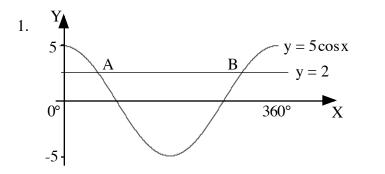
HOME EXERCISE 16

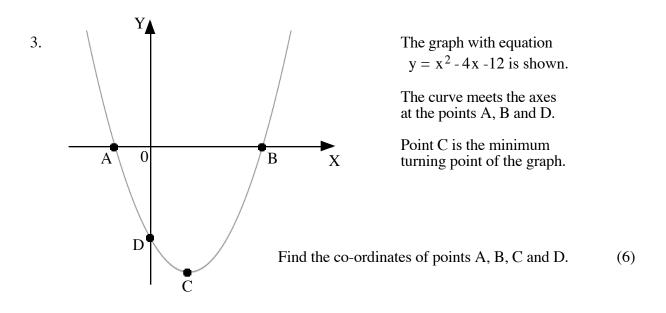
Set out carefully all appropriate working.



The graphs with equations $y = 5\cos x$ and y = 2 are shown.

Find the x co-ordinates of the points of intersection A and B. (4)

2. Solve the inequality for x: 7x + 3 < 4x - 5 (3) (leave your answer with a 'top-heavy' fraction)



- 4. Solve the system of equations algebraically: 3a + 4b = 145a + 3b = 5 (4)
- 5. Between 2006 and 2007 the value of a house **increased by 25%**. The value of the house in **2007** was £80 000.

Calculate the value of the house in 2006.

(3)

Total 20 marks