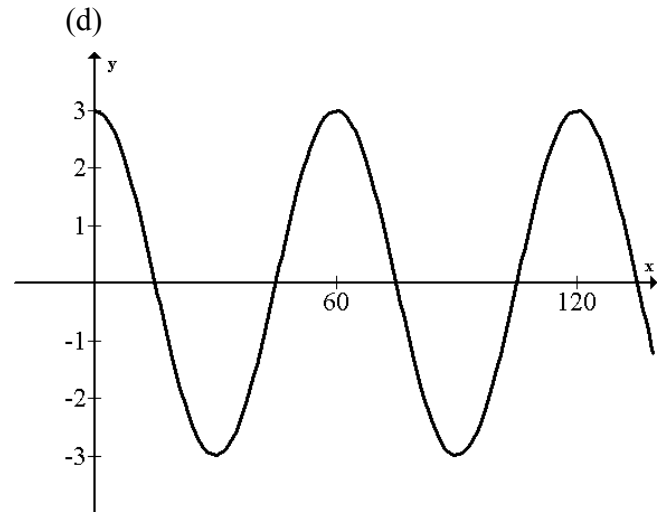
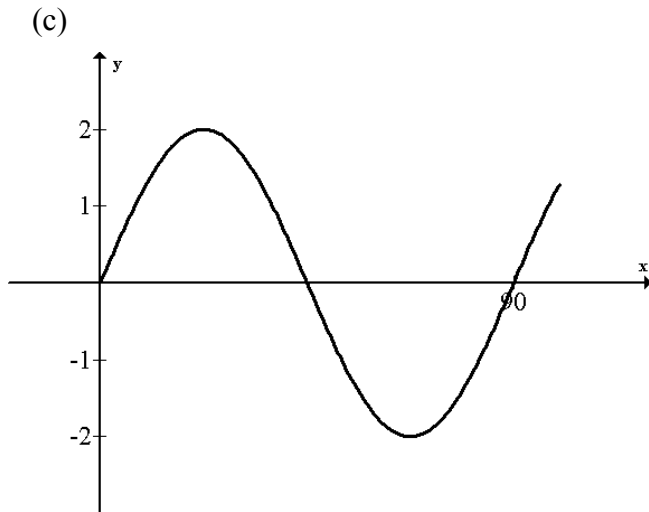
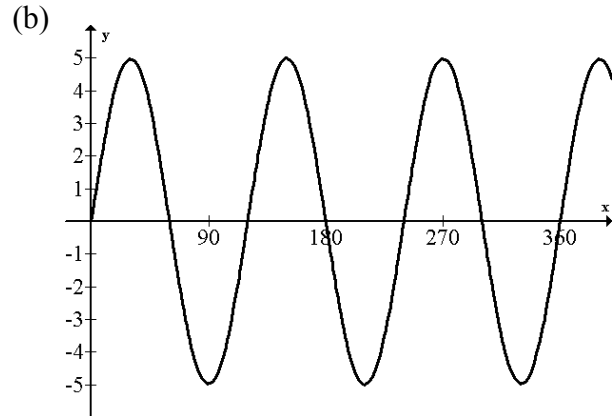
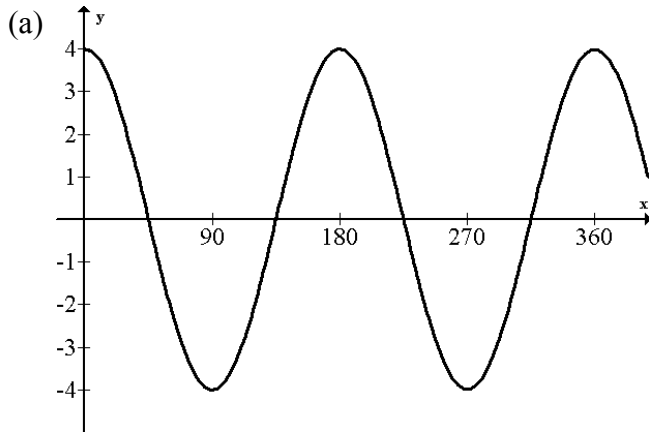
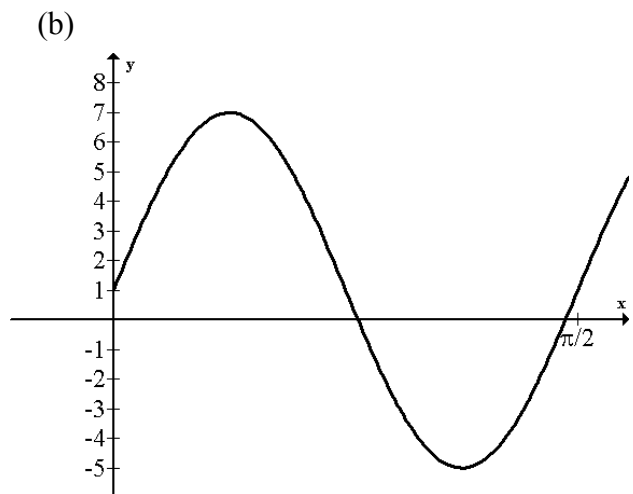
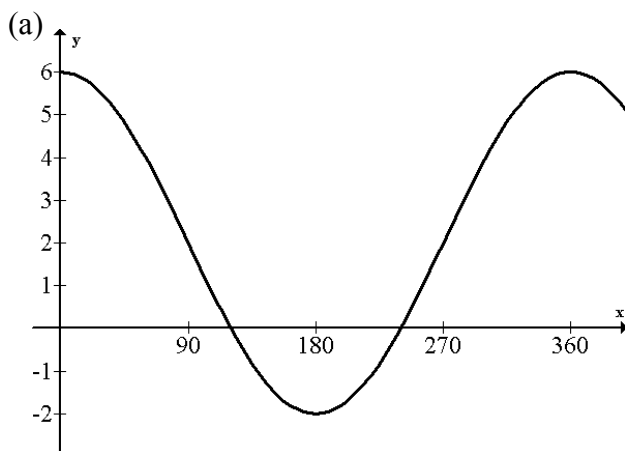


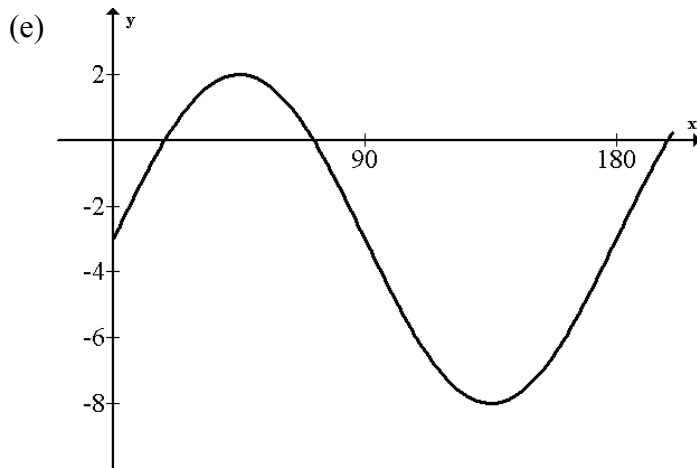
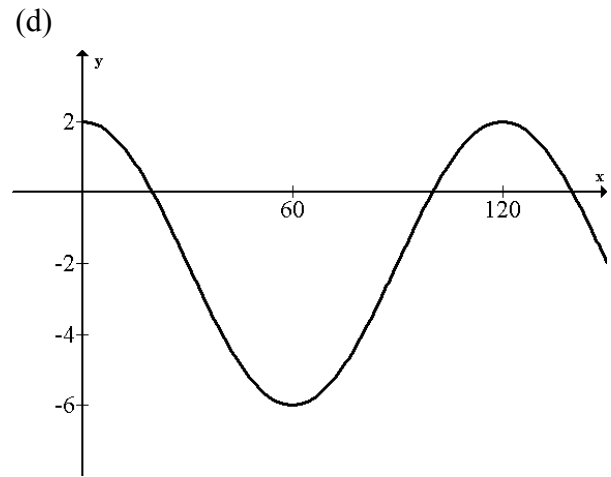
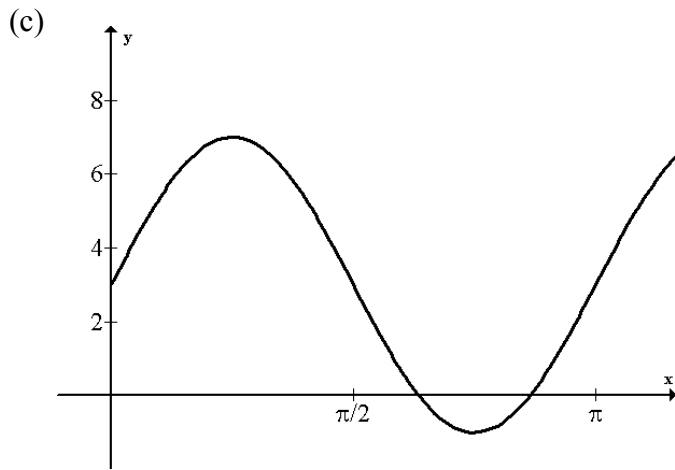
Trigonometric Graphs

1. Each graph below is of the form $y = a \sin bx$ or $y = a \cos bx$. Write down the equation of each graph.



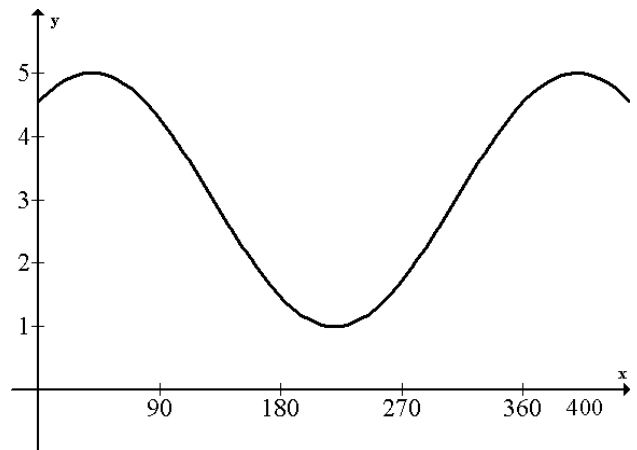
2. Write down the equation of each graph below in the form $y = a \sin bx + c$ or $y = a \cos bx + c$.





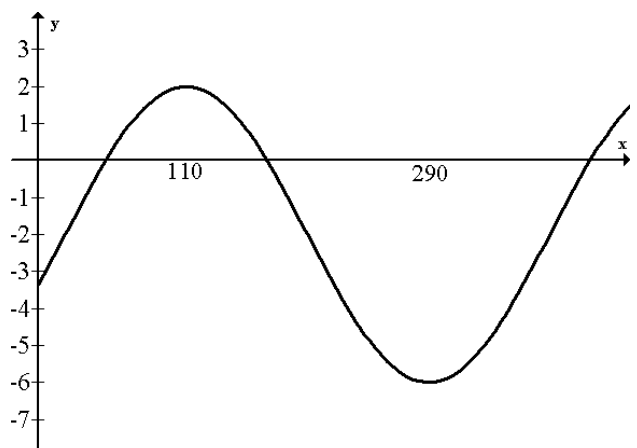
3. The graph shown opposite has equation $y = a \cos(x - b) + c$.

Find the values of a , b and c .

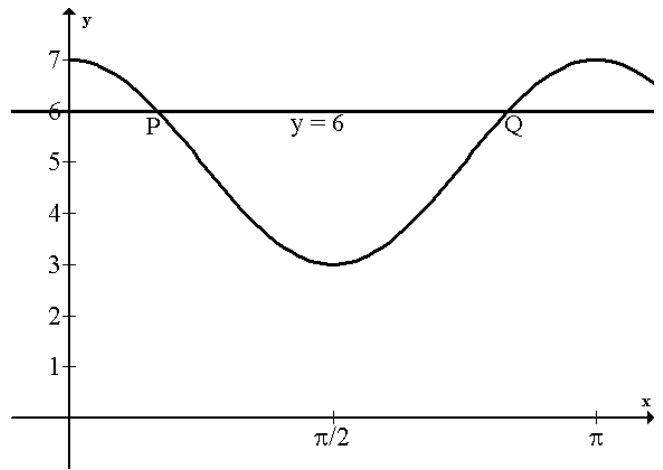


4. The graph opposite has equation $y = a \sin(x - b) + c$.

Find the values of a , b and c .

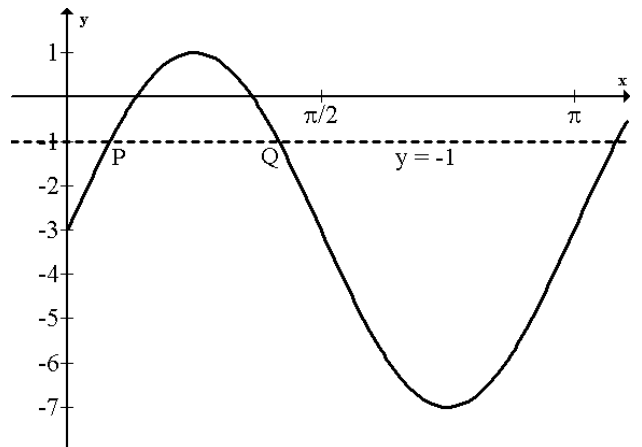


5. (a) The diagram opposite shows the graph of $y = a \cos bx + c$.
Write down the values of a, b and c .



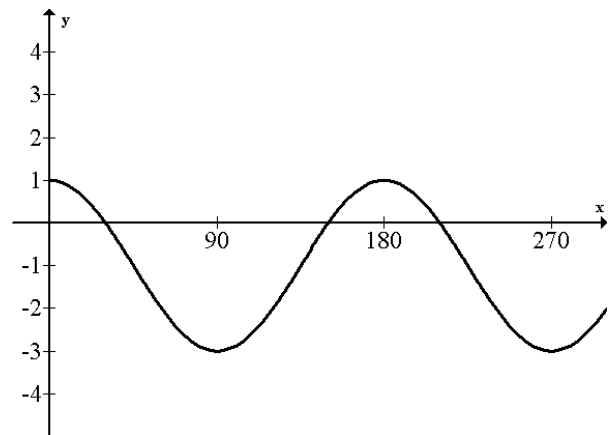
- (b) Find the coordinates of P and Q the points of intersection of the graph in (a) with the line $y = 6$.

6. (a) The diagram shows the graph of $y = a \sin bx + c$.
Write down the values of a, b and c .

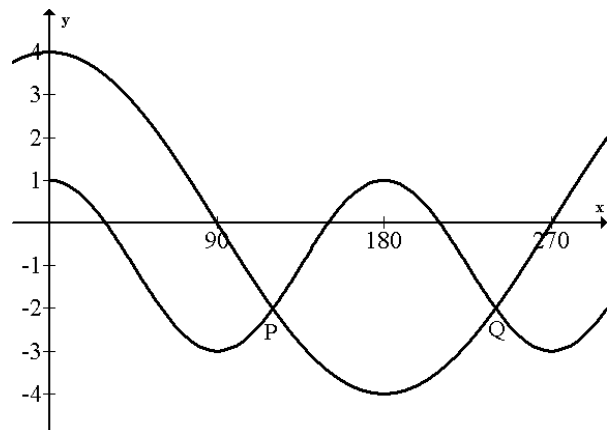


- (b) Find the coordinates of P and Q the points of intersection of the graph in (a) with the line $y = -1$.

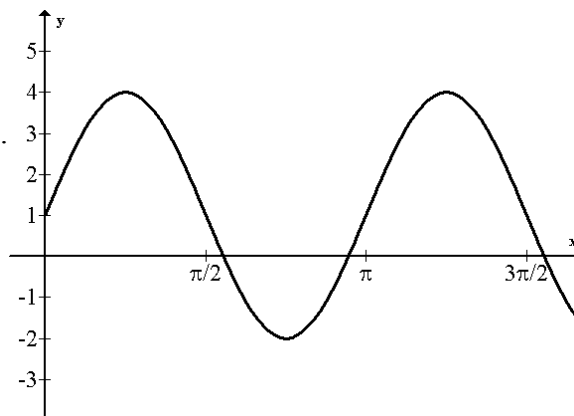
- 7.(a) The graph shown has equation $y = a \cos bx + c$.
Find the values of a, b and c .



- (b) Find the coordinates of P and Q the points of intersection of the graph in (a) with the graph $y = 4 \cos x$.



8. (a) The graph opposite has equation $y = a \sin bx + c$.
Write down the values of a , b and c .



- (b) Find the coordinates of P and Q the points of intersection of the graph in (a) with the graph $y = 2 \sin x + 1$.

