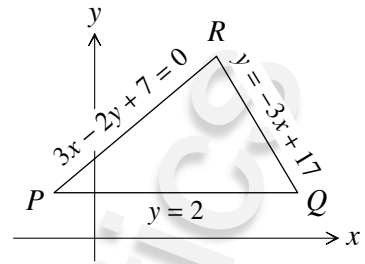
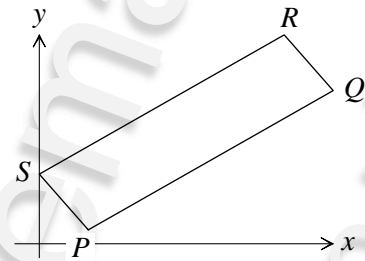


- 15 The diagram shows triangle PQR .
Calculate the coordinates of the vertices P , Q and R .



- 16 The diagram shows parallelogram $PQRS$. The equation of PQ is $y = 2x - 1$, the equation of RQ is $y = -4x + 35$ and S is the point $(0, 5)$.
- Calculate the coordinates of Q .
 - Write down the equation of SP .
 - Calculate the coordinates of P .
 - Write down the equation of SR .
 - Calculate the coordinates of R .

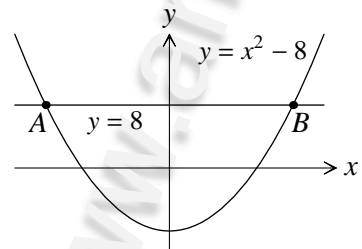


6.2 The intersection of a straight line and a parabola

In this exercise you will learn how to:

- find the points of intersection of a straight line and a parabola

- 1 The diagram shows the straight line with equation $y = 8$ and the parabola with equation $y = x^2 - 8$.
The line and the parabola intersect at the points A and B .
Calculate the coordinates of A and B .



- 2 The diagram shows the straight line with equation $y = 4$ and the parabola with equation $y = 13 - x^2$.
The line and the parabola intersect at the points P and Q .
Calculate the coordinates of P and Q .

