9:

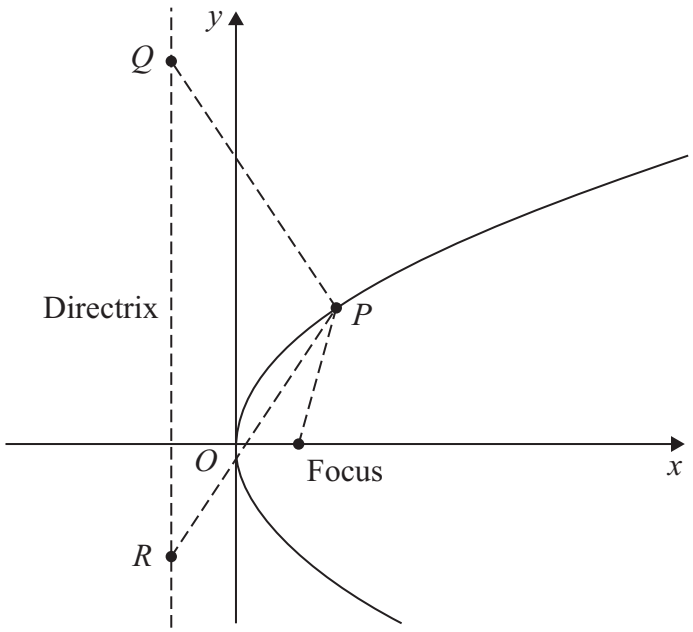


Figure 1

Figure 1 shows a sketch of a parabola C.

The point P lies on C at a distance 5 units from the focus of C.

The points Q and R lie on the directrix of C, where $PQ = PR = 10$ units.

Determine the exact length of QR giving the answer in simplest form.

(4)

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Question 9 continued

Question 9 continued

(Total for Question 9 is 4 marks)

TOTAL FOR PAPER IS 75 MARKS

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