

value of x at which a minimum occurs.

(a) State the value of c and the value of d.

(c) Solve, for
$$450^{\circ} \le \theta < 720^{\circ}$$
,

(ii) $v = 3\cos(x - 36)^{\circ}$

giving your solution to one decimal place.

In part (c) you must show all stages of your working.

Solutions relying entirely on calculator technology are not acceptable.

 $3\cos\theta = 8\tan\theta$

(5)

(1)