(a) Find the x-coordinate of the stationary point on the curve

with equation $y = 6x - 2\sqrt{x^3}$. **4**

(b) Hence, determine the greatest and least values of y in the interval $1 \leq x \leq 9$. **3**

Answers:

(a) $x = 4$

(b) Greatest $= 8$. Least $= 0$.