Start here for

$$f(x) = (x + 2)(x^2 + 4)$$

$$f(x) = 2^3 + 4x + 2x^2 + 8$$

$$= 2^3 + 2x^2 + 4x + 8$$

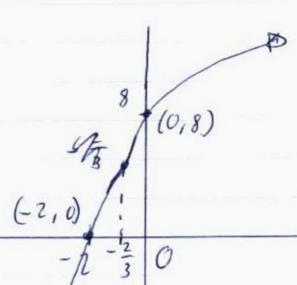
$$f''(x) = 6x + 4$$

$$6x > -4$$

 $2 > -\frac{4}{5}$ $3c > -\frac{2}{3}$

47490 P.O.I 9T fa)=0

621420



b) 9:50 i) = POQxr = l < 90 Q x 5 = 9

< POQ = 9 radians

ii) OT is common (given) OP = OQ (radius of a citcle arelless) = OPT = < O QT (given - perpendicular)

. DOPT = DORT

Additional writing space on back page.

$$PPT = QOT$$
 $= QOT = \left(\frac{9}{5}\right) \div 2$

= 42.75cm2

You may ask for an extra Writing Booklet if you need more space to answer question 6.