

(a) <u>3.849</u>

53.94

= 0.071357...

= 0.0713 (3sig figs)

(b) $f(x) = x^3 + 2$

 $f(x) = 3x^2$

(C) $\chi^2 = 5\chi$

 $\chi^2 - S\chi = 0$

x(x-5)=0

: x=0 or x=5

 $\frac{d}{x}$ $\frac{3}{x}$ $\frac{d}{x}$

 $=\int 3x^{-1} dx$

= 3loge 2 + C



(e)
$$3x - 2x - 5 = 6$$

$$6x - 2z + 5 = 6$$

$$x = \frac{17}{4}$$

$$47 \times -2y = 8 0$$

Sub to ②:
$$2(8+2y)+y=1$$

$$16+4y+y=1$$

$$5y=-15$$



800	into	1

$$x - 2(-3) = 8$$

$$x + 6 = 8$$

$$x = 2$$

$$x = 2$$

· .	DC = 2		4	=	-3
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