$$\cos(\frac{\pi}{4}) + 1, \le 2$$

$$() = \frac{2}{2} + -3, > 2$$

$$= 2$$

$$() = {}^{3}e^{-} - 1 \ge 0$$

$$()= ()+ '()d$$

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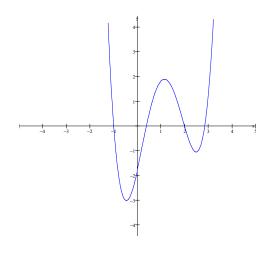
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 $F(\)=\ (\)\ d$

F(); (); '()

]T

$$\frac{dy}{d} = y(-1)$$



$$\lim_{\to 2^{-}} \cos(\frac{\pi}{4}) + 1 = \cos \frac{\pi}{2} + 1 = 1$$

$$\lim_{\to 2^{+}} \frac{2}{2} + -3 = 2 + 2 - 3 = 1$$

$$(2) = 1$$

$$\lim_{\to 2} () = (2)$$

$$= 2$$

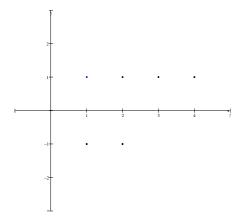
$$(4) = .172 > 0$$

 $(4) = '(4) = -.293 < 0$

$$|(-2)\sin(-)|$$

$$F()$$
 d = 12.970 thousand gallons

$$\frac{1}{5} {}_0^5 F() d$$



'()

'()

=-1, .3, 2 and 2.8