$$() = \frac{\cos(\frac{\pi}{4}) + 1}{\frac{2}{2} + -3}, > 2$$
$$= 2$$

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

$$) = {}^{3}e^{-} - 1 > 0$$

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

$$() = + () d$$

$$\binom{1}{2} ( ) \qquad [ \ _{0}, \ _{n} ]$$

$$\underset{0}{}^{n} ( ) d \approx ( ) \cdot ( \ _{1} - \ _{0} ) + ( ) \cdot ( \ _{1} - \ _{0} ) + ( ) \cdot ( \ _{2} - \ _{1} ) + ( ) \cdot ( \ _{3} - \ _{2} ) + \dots + ( ) \cdot ( \ _{n-1} ) \cdot ( \ _{n-n-1} )$$

$$\binom{n}{2} ( ) d \approx ( ) \cdot ( \ _{1} - \ _{0} ) + ( ) \cdot ( \ _{2} - \ _{1} ) + ( ) \cdot ( \ _{3} - \ _{2} ) + \dots + ( ) \cdot ( \ _{n-1} ) \cdot ( \ _{n-n-1} )$$

$$( ) \qquad [ \ _{0}, \ _{n} ]$$

$$\binom{n}{2} ( ) d \approx ( ) \cdot ( \ _{1} - \ _{0} ) + ( ) \cdot ( \ _{2} ) \cdot ( \ _{2} - \ _{1} ) + ( ) \cdot ( \ _{3} - \ _{2} ) + \dots + ( ) \cdot ( \ _{n} - \ _{n-1} )$$

$$( ) \qquad [ \ _{0}, \ _{n} ]$$

$$\binom{n}{2} ( ) d \approx ( ) \cdot ( \ _{1} - \ _{0} ) + ( ) \cdot ( \ _{1} - \ _{0} ) + ( ) \cdot ( \ _{2} - \ _{1} ) + ( ) \cdot ( \ _{2} - \ _{1} ) +$$

$$\frac{\binom{n}{2} ( ) d \approx ( ) \cdot ( \ _{1} - \ _{0} ) + ( ) \cdot ( \ _{1} - \ _{0} ) + ( ) \cdot ( \ _{1} - \ _{1} ) + ( ) \cdot ( \ _{2} - \ _{1} ) +$$

 $0 \le \le 12$ 

F() = () d

F();();();'()

]T

 $-2 \leq \leq 5$ 

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

 $( )< ( )\rightarrow <$ 



$$\lim_{d \to 2^{-}} \cos(\frac{\pi}{4}) + 1 = \cos \frac{\pi}{2} + 1 = 1$$
$$\lim_{d \to 2^{+}} \frac{2}{2} + -3 = 2 + 2 - 3 = 1$$
$$(2) = 1$$
$$\lim_{d \to 2^{+}} (2) = (2) = 2$$

$$(4) = .172 > 0$$
  
(4) = '(4) = -.293 < 0

= 4

 $|_{0}^{2}(2)\sin(2)|$ 

 $\int_{0}^{10} F(\) d = 12.970 \text{ thousand gallons}$   $\int_{0}^{5} F(\) d$   $\frac{1}{5} \int_{0}^{5} F(\) d$ 



'( )

'( )

=-1, .3, 2 and 2.8