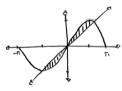


$$\int_{-1}^{2} \left[ \left( q - \chi^{2} \right) - \left( \chi + 1 \right) \right] d\chi$$

$$= \int_{-1}^{2} \left( -x^{2} - x + 8 \right) dx$$

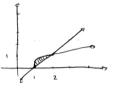
$$= \left( -\frac{1}{3}x^{3} - \frac{1}{2}x^{2} + 8x \right) \Big|_{-1}^{2}$$

$$=\frac{39}{2}$$



$$\int_0^{\pi/2} \left[ \sin \alpha - \frac{2}{\pi} \alpha \right] d\alpha$$

$$= \left(-\cos x - \frac{1}{\pi}x^2\right)\Big|_{0}^{\pi/2}$$



WALLE

$$= \int_{1}^{2} \sqrt{x} dx - \int_{1}^{2} (x - 1) dx$$

$$= \left( \frac{1}{2} x^{2} - x \right) \Big|_{1}^{2}$$

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$$= \left( \frac{1}{2} x^{2} - x \right) \Big|_{1}^{2}$$

$$\int_{-\infty}^{\infty} \left| \int_{-\infty}^{\infty} \int_{-\infty}$$

$$\frac{x^{2} = 4x - x^{2}}{2x^{2} = 4x} = \frac{2}{3}(x - 1)^{3/2} \Big|_{1}^{2} = \left(\frac{1}{2}x^{2} - x\right)\Big|_{1}^{2}$$

$$\begin{array}{c} x^2 = 2x \\ 0 = x^2 - 2x \end{array}$$

$$\begin{array}{c} -x \times (x-2) \end{array}$$

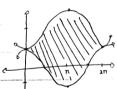
$$\int_{-3}^{1} \left[ \sqrt{3+3} - \frac{1}{2} \left( x+3 \right) \right] dx$$

$$= \int_{-3}^{1} \sqrt{x+3} \, dx - \int_{-3}^{1} \left(\frac{1}{2}x+\frac{3}{2}\right) dx$$

 $= \left(\frac{1}{4} x^2 + \frac{3}{2} x\right) \begin{vmatrix} 1 \\ -3 \end{vmatrix}$ 

$$=\frac{2}{3}0^{3/2}\bigg|_{-3}^{1}$$

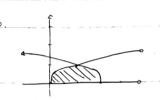
$$= \frac{2}{3} u^{3/2} \left| \frac{1}{-3} - \left( \frac{1}{4} \chi^2 + \frac{3}{2} \chi \right) \right|_{-3}^{1}$$



 $\int_{0}^{2} \left[ 4x - x^{2} - x^{2} \right] dx$ 

 $= -\int_{0}^{2} (4x^{2} - 2x^{2})$ 

 $= 2\left(x^2 - \frac{1}{3}x^3\right)\Big|_{x}^{2}$ 



$$\frac{1}{5} \int_{0}^{2} \sqrt{2} \cdot x \, dx - \int_{0}^{2} \sqrt{x} \, dx$$

$$\frac{1}{5} \int_{0}^{2} \sqrt{x} \, dx - \int_{0}^{2} \sqrt{x} \, dx$$

$$\frac{30}{30} = -1$$

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$$\frac{1}{4\sqrt{2}} = \frac{2}{3} (2-x)^{3/2} \Big|_{0}^{2} = \frac{4}{5} x^{5/4} \Big|_{0}^{2}$$

$$=\frac{4\sqrt{2}}{3}-\frac{8\sqrt[3]{2}}{5}$$

$$\int_{-1}^{1} (x-x^3) dx$$
  
Because  $x-x^3$  is odd,  $\int_{-1}^{1} (x-x^3) dx$   
must be 0 by addinition

$$\int_{2}^{3} \left( 2 \propto -\left( 2 \propto - \sqrt{2} \right) \right) dx$$

$$= \int_{2}^{3} \left( x - 3x + x^{2} \right) dx$$

$$= \int_{2}^{3} \left( x^{2} - 2x \right) dx$$

$$= \left(\frac{1}{3} \times^3 - \times^2\right) \left| \begin{array}{c} 3 \\ 2 \end{array} \right|$$



$$\int_{0}^{1} \left( 2\chi^{2} - \frac{1}{4}\chi^{2} \right) d\eta + \int_{1}^{2} \left( -\chi \in \mathfrak{F} - \frac{1}{4}\chi^{2} \right) d\eta$$

$$= \int_{0}^{1} \frac{1}{4} x^{2} dx$$

$$= \frac{7}{12} x^{3} \Big|_{0}^{1}$$

$$= \int_{1}^{1} \left( -\frac{1}{4} x^{2} - x + 3 \right) dx$$

$$= \left( -\frac{1}{12} x^{3} - \frac{1}{2} x^{2} + 3x \right) \begin{vmatrix} 2 \\ 1 \end{vmatrix}$$

$$\frac{7}{12} + \frac{11}{12} = \left[\frac{3}{2}\right]$$

= KV John Justing Jyle John

: 50 (0.7462 + 23.56 +740) dt

$$= \left(\frac{0.74}{3} + \frac{23.5}{2} + \frac{23.5}{2} + \frac{240}{100}\right) = 0$$

= 8822 Represents the change in population which accounts buy birtust deadles.