Goinn Miles

Society 10 = 78,400

1. F =
$$\begin{bmatrix} 10 & (9.8 + 15)(10 + 9) & dy + 78,400 \\ 0 & (9.8 + 15)(10 + 9) & dy + 78,400 \\ 0 & (9.8 + 15)(10 + 9) & dy + 78,400 \\ 0 & (9.8 + 15)(10 + 9) & dy + 78,400

2. $y = x^2 + y = x^2 + y$$$

Gorin Mullan A * 4-2y=y-2 6=3y=y=2B. -ytragravaranaSWALENANDY THE STANDARD STANDA y-2=4+ 2y-y2 $y^2 + y - 2 = 4 + 2y$ $y^2 = 6 + y$ y = 3 $(y^2 - y - 6) = 0$ (y - 3)(y + 2)4-29=4+29-92 y2+4= 2y = 4+2y y (y-4)=0 y2-4y=0

$$= \int_{0}^{4} (4+2y-y^{2}-4-2y) dy + \int_{0}^{4} (y-2-4-2y) dy$$

B.

22 to 2 1 1 1 1 1 1 1

$$\chi^3 = 4\chi$$
 $\chi^2 = 4$ $\chi = (2,-2)$

$$2. = \int_{0}^{2} (\chi^{3} - 4\chi)^{2} d\chi$$

3.
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$$u=y^2$$
 du = $2xdx$

$$= -\frac{1}{5}e^{-5x}\chi^{2} - \left(2x - \frac{1}{5}e^{-5x}dx\right)$$

$$= -\frac{1}{5}e^{-5x}\chi^2 + \frac{1}{5}e^{-5x} 2x dx$$

$$u = 2x du = 2$$
 $dv = \frac{1}{5}e^{-5x} d = -\frac{1}{25}e^{-5x}$

$$= -\frac{1}{5}e^{-5x}x^{2} - \frac{1}{25}e^{-5x}2x + \frac{1}{25}e^{-5x}dx$$

$$= -\frac{1}{5}e^{-5x}\chi^{2} - \frac{1}{25}e^{-5x}\chi^{2} - \frac{1}{125}e^{-5x}\chi^{2}$$

6. A (W)
$$f(x) = \sqrt{3x+8}$$
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