$$a. \int -4t + bt^{2} dt$$

$$\int_{-1}^{-2} -4 + 6 t^{2} dt$$

$$= 2t + 2t$$

$$= 2t + 2t^{3}$$

$$= (-2t^{2} + 2t^{3}) - 1$$

$$= -2 \cdot (-1)^{2} + 2(-1)^{3} - (-2 \cdot (-2)^{2} + 2 \cdot (-2)^{3})$$

$$= 20$$

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$$= \begin{bmatrix} 3 \times 3 + 3 \times \frac{1}{3} \end{bmatrix}_{1}^{8}$$

$$= \frac{3}{4} (8) \frac{4}{3} + \frac{3}{7} (8) \frac{7}{3} = \frac{3}{4} (16) + \frac{3}{7} (120)$$

$$=\frac{3}{4}\times\frac{16}{7}\times\frac{3}{7}\times\frac{128}{7}=\frac{12}{7}\times\frac{384}{7}=\frac{84}{7}$$

$$+384 = 468$$

$$=\frac{21}{28}+\frac{12}{18}=\frac{33}{28}$$

$$= 1872 - 33 = 1839$$

$$= 28$$

$$= 28$$

$$= 1 = 1 - (1) = -1 - (-1)$$

$$++2 -1+2 = 3+2 = -1 - (-1)$$

$$=-1+1=-4$$

$$\frac{-1}{4} = x^3 + 1 \cdot du = 3x^2$$

$$X = -1$$
 $U = (-1)^3 \neq 1 = -1 + 1 = 0$
 $X = 0$ $U = (0)^3 + 1 = 0 + 1 = 1$

$$\int \sqrt{1} \, du = \int u^{\frac{1}{2}} \, du = \frac{2}{3} u^{\frac{3}{2}} = \begin{bmatrix} 2 & 3 \\ 3 & 2 \end{bmatrix}$$

$$\frac{3}{2} = \frac{3}{2}(1)^{\frac{3}{2}} - \frac{3}{2}(0)^{\frac{3}{2}} = \frac{2}{3} - 0 = \frac{2}{3}$$

$$\frac{3}{3} = \frac{3}{3}$$

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$$x^2 - x$$

$$f(x) = x^{2} - x$$

 $f(3) = 3^{2} - 3 = 9 - 5 = 3$
 $f(-2) = (-2)^{3} - (-2) = 4 + 2 = 6$

$$\int_{0}^{3} (2x-1) dx$$

$$= f(3) - f(-2)$$

$$= 6 - 6$$

$$= 0$$

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