Steepest increese

7.
$$f(x,y) = -x^{2}y + xy^{2} + xy$$

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7. $f(x,y) = 2x^{2}y - 4xy^{2}, \vec{v} = \langle 1,3 \rangle, P = \langle 2,3 \rangle.$

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$$f(x,y) = 3x - 5y$$
, $\vec{v} = \langle 1,1 \rangle$, $P = (4,2)$.

$$f_{\chi} = 3$$

$$f(y_1, z_2) = 2$$

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$$f(y_2, z_2) = 2$$

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$$\begin{array}{c} (0, 1, 1) \\$$

$$\int_{1}^{2y} 2xy \, dx.$$

$$\int_{2x}^{2y} dx \qquad \chi^{2} + C$$

$$\int_{3}^{2y} dx \qquad U^{3} + C \qquad y + C$$

$$\int_{3}^{3} 4x dx \qquad U^{3} - y$$

$$2x^{2} + C \qquad 2x + C \qquad 2x + C$$

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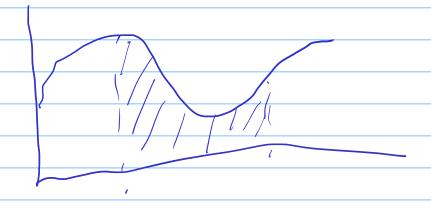
$$\int_{1}^{x} \left(5x^{3}y^{-3} + 6y^{2}\right) dy.$$

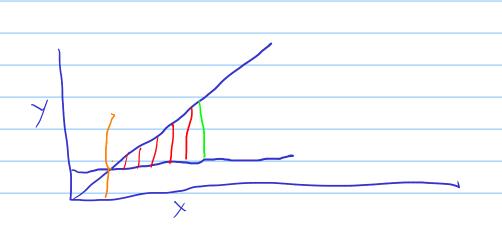
$$\frac{-5x^{3}y^{-2}}{-2}$$
 + 2 y^{3} + (

$$\frac{5}{2}x^{3} \cdot x^{-1} + 2x^{3} + (-(\frac{5}{2}x^{3} + 2 + ($$

$$\frac{5}{2} \times +2 \times 3 - \frac{5}{2} \times 3 - 2$$

$$\frac{-1}{2}x^3 + \frac{5}{2}x - 2$$





$$\int_{-\frac{1}{2}}^{2} x^{3} + \frac{5}{2} x - 2 \, dx$$

$$-\frac{1}{8} x^{4} + \frac{5}{4} x^{2} - 2x + (\int_{-\frac{1}{2}}^{2} + \int_{-\frac{1}{2}}^{2} + \int_$$