





$$S = \int_{-1\sqrt{y}}^{\Lambda} \int_{-1\sqrt{y}}^{Y} (2y+3x+2) dx dy$$

$$= \int_{-1\sqrt{y}}^{\Lambda} \left[2xy + \frac{3}{2}x^{2} + 2x \right]_{x=-1\sqrt{y}}^{x=1/y} dy$$

$$= \int_{-1\sqrt{y}}^{\Lambda} \left(2y^{2} + \frac{3}{2}y^{2} + 2y - \left(-2y \cdot \sqrt{y} + \frac{3}{2}y - 2\sqrt{y} \right) \right) dy$$

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