4)
$$X = \frac{1}{3}(y^{2}+2)^{3h}$$
 $Y = 0, Y = 1$

$$X' = \frac{1}{3}(y^{2}+2)(xy)$$

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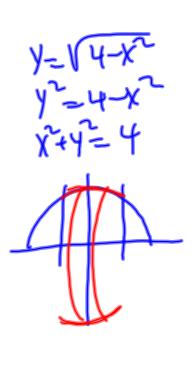
$$(x') = (y^{2}+2)(xy)$$

$$(x') = (y^{2}+2)(xy)$$

$$\int_{0}^{1} (1+y^{2})^{2} dy$$

$$\int_{0}^{1} (1+y^{2})^{2} dy$$

$$\int_{0}^{1} (1+y^{2})^{2} dy$$



7)
$$X = \sqrt{9-y^2} - 2 \le y \le 2$$

 $X = \frac{1}{9-y^2} (9-y^2)^{\frac{1}{2}} = 20$
 $(X) = \frac{y^2}{9-y^2}$
 $(X) = \frac{y^2}{9-y^2} = 20$
 $(X) = \frac{1}{9-y^2} = 20$