7.
$$f(x) = (4x^3 - x)^{10}$$

11.
$$f(x) = (\ln x + x^2)^3$$

$$f(x) = \chi^{3}$$

$$f' = 3 \chi^{2}$$

$$g(x) = \ln x + \chi^{2}$$

$$g' = \frac{1}{\chi} + 2\chi$$

$$g(\ln x + \chi^{2})^{4} \left(\frac{1}{\chi} + 2\chi\right)$$

33.
$$f(x) = \sin(3x+4)\cos(5-2x)$$

7. Find the maximal area of a right triangle with hypotenuse of length 1.

$$A = \frac{1}{2}ab$$

$$a^{2}+b^{2}=(1-b^{2})^{\frac{1}{2}}=a$$

$$\frac{1}{2}(1-b^{2})^{\frac{1}{2}}\cdot b=A$$

$$\frac{1}{2}(1-b^{2})^{\frac{1}{2}}\cdot 2b\cdot b+(1-b^{2})^{\frac{1}{2}}$$

$$\frac{1}{2}(1-b^{2})^{\frac{1}{2}}\cdot 2b\cdot b+(1-b^{2})^{\frac{1}{2}}$$

$$\frac{1}{2} \left[-b \left(1 - b^{2} \right)^{\frac{1}{2}} .b + \left(1 - b^{2} \right)^{\frac{1}{2}} \right]$$

$$\frac{1}{2} \left(1 - b^{2} \right)^{\frac{1}{2}} \left[-b^{2} + \left(1 - b^{2} \right) \right]$$

$$\frac{1}{2} \left(1 - b^{2} \right)^{\frac{1}{2}} \left[-b^{2} + \frac{1}{2} - b^{2} \right]$$

$$\frac{1}{2} \left(1 - b^{2} \right)^{\frac{1}{2}} \left[\frac{1}{2} - b^{2} \right] = 0$$

$$\frac{1}{2} \left(1 - b^{2} \right)^{\frac{1}{2}} \cdot b = A$$

$$\frac{1}{2} \cdot \left(1 - b^{2} \right)^{\frac{1}{2}} \cdot b = A$$

$$\frac{1}{2} \cdot \left(1 - b^{2} \right)^{\frac{1}{2}} \cdot b = A$$

$$\frac{1}{2} \cdot \left(1 - b^{2} \right)^{\frac{1}{2}} \cdot b = A$$

$$\frac{1}{2} \cdot \left(1 - b^{2} \right)^{\frac{1}{2}} \cdot b = A$$

$$\frac{1}{2} \cdot \left(1 - b^{2} \right)^{\frac{1}{2}} \cdot b = A$$

$$\frac{1}{2} \cdot \left(1 - b^{2} \right)^{\frac{1}{2}} \cdot b = A$$

$$\int_{3x}^{3} x^{2} = 2x \qquad \int_{3y}^{3} x^{2} - 10 = 2x$$

$$\int_{3x}^{3} dx \qquad \int_{4x}^{6x} x^{2} + 10 = 2x$$

$$\int_{3x}^{3} dx \qquad \int_{4x}^{6x} x^{4} + (\frac{1}{4}ux^{3} = x^{3})$$

$$\int_{3x}^{4} x^{4} + (\frac{1}{4}ux^{3} = x^{4})$$

$$\int_{3x}^{4} x^{4} + (\frac{1}{4}ux^{4} + \frac{1}{4}ux^{4} + \frac{1}{$$

$$a(L = -9.8) \frac{m}{52}$$

$$vel = \begin{cases} -9.81 \cdot Jt & -9.816 + (\frac{m}{5}) \\ + t=0 \\ C & V_{0} \end{cases}$$

$$ros = \begin{cases} -9.81t + CJt \\ -9.81t^{2} + Ct + C_{2} & M \end{cases}$$

$$ros = \begin{cases} -9.81t^{2} + V_{0}t + S_{0} \end{cases}$$

definite integrals



Mm

