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a). 
$$\frac{\cos x}{x}$$
  $\frac{u - \cos x}{u^2 - \sin x}$ 

b) 
$$x^{1}-x-12<0$$
  
 $(x^{2}-4)(x+3)<0$ 

$$x = 4, -3$$

c) 
$$y = \ln(3x) \quad x = 2$$
  
 $y - y_1 = m(x - x_1)$   
 $y - \ln 3x = m(x - 2)$ 

$$= \int_{\overline{Q}} \frac{1}{2} (5x11) dx$$

$$= \frac{1}{2} \left( \frac{5x^2 + 1x}{2} \right) + C$$

$$\int \frac{x}{4dx + x^2} dx$$

$$\frac{x^{2} + x^{-1} + c}{4(2)}$$

e). 
$$\int_0^{\epsilon} (x+k) dx = 30 \quad k = constant.$$

$$\int_0^k \frac{(x^2+k)\cdot c^2}{2}$$