Start here for Question Number: 2

(b)
$$x^2 - x - 12 < 0$$

 $(x - 4)(x + 3) < 0$
 $xx + xx = 0$
 $x - 3 < x < 4$

$$\frac{dy}{dx} = \frac{3}{3x}$$

at
$$x = 2$$
, $m = \frac{1}{2}$
at $x = 2$, $y = \ln 6$
 $x = \sqrt{1 + 1}$

$$= \frac{(T_{x+1})^{\frac{3}{2}}}{3/2} + C$$

$$= \frac{2(\Omega(+1)^{\frac{3}{2}}}{3} + C$$

$$= 2\sqrt{(5n+1)^3} + C$$

$$=\frac{1}{2}\int \frac{2\lambda}{q+2^2}$$

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(8)
$$\int_{0}^{c} (x + K) dx = 30$$

$$= \left[\frac{\kappa^2}{2} + k\kappa^2\right]_0^6 = 30$$

$$= \left(\frac{36}{2} + 6k\right) - (0) = 30$$