Find 
$$\int 2x + 2x^2 - \frac{1}{2} dx = \Re$$

we know that:
$$\int f \pm g dx = \int f dx \pm \int g dx$$

Then,
$$\Re = \int 2x dx + \int 2x^2 dx - \int \frac{1}{2} dx =$$

$$Now, \int k f dx = k \cdot \int f dx,$$

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Tind Subst; hution; In (va) on =  $\Rightarrow \frac{1}{2} x^{-1/2} dx = dt$ = | ln(+), 2+ dt (-) 1/2 dx = dt by mis g f by mis g lall) - ∫t2, \tau dt (=) dx = 2+ d+ ·f(+)=2+ => /2+d+=+2+C = t2. lm(+) - /t dt · g(+) = ln(+) =) g'(+) = 1 = +2. ln(+) - = +c = x. m(vx) - 2+C