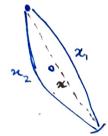
Q No.

Exercise No.

Solved Problems: Sub Obj

28.6.21



Dx, = 21 - 21

ムスニスンール

 $\Delta n = |\Delta n_1 - \Delta n_2|$

Dr= CAt

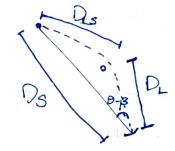
is larger than along the undeflected path for

1. Deflected path is geometrically larger stges

2. Granitational time delay due to the local granitational potential causing the deflection

Atggar = Atslapins

Digeo in Static, plat netric



 $D_{3}^{2} + D_{L}^{2} - 2D_{3}D_{L}\cos(\theta - \beta) = D_{L}^{2}$

Taking small angle approximation $\cos 2x = 1 - \frac{x^2}{2}$

$$\Rightarrow D_{LS}^{2} = D_{S}^{2} + D_{L}^{2} - (2D_{S}D_{L} - D_{S}D_{L}(\Theta - \beta)^{2})$$

Taking square most and for next, The = 1+ in

$$D_{LS} = \left(D_{S} - D_{L}\right) \left[1 + \frac{1}{2} \frac{D_{S} D_{L} \left(0 - \beta\right)^{2}}{\left(D_{S} - D_{L}\right)^{2}}\right]$$

= Ds-DL + 12 Ds DL (0-B)2

$$=2(D_3-D_1)^2+D_5D_1(0-p)^2=x^2+2D_1D_3(0-p)^2=D_{15}$$

$$=2(D_3-D_1)^2+D_5D_1(0-p)^2=n$$

Q No.

Exercise No.

Solved Problems: Sub Obi

$$n^{2} - D_{LS} n + \frac{1}{2} D_{L} D_{S} (\Theta - \beta)^{2} = 0$$

$$n = D_{LS} \pm \sqrt{D_{LS}^{2} - 2D_{S} (\Theta - \beta)^{2}} = D_{S} - D_{L}$$

Eg 8A Bartchmann M (2010) ??

$$\Delta t_{ggo} = D_s D_L (O-R)^2$$

$$C D_{LS} \qquad 2$$

$$\Delta r_{grav} = \Delta r_{slapino} = -\frac{2}{c^3} \left(\phi \, dl \right) = -\frac{1}{c} \left(\frac{2\phi}{c^2} \, dl \right)$$

$$\Delta r_{grav} = -\frac{1}{c} \left(\frac{2\rho}{c^3} \right) \left(\frac{4\rho}{c^3} \, dl \right)$$

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$$\Delta r_{grav} = -\frac{1}{c} \left(\frac{2\rho}{c^3} \right) \left(\frac{4\rho}{c^3} \, dl \right)$$

$$\Delta r(\theta) = \Delta r_{gen} + \Delta r_{gen} = 1 \frac{D_L D_S}{D_L S} \left[\frac{(Q-B)^2}{2} - \Upsilon(Q) \right]$$