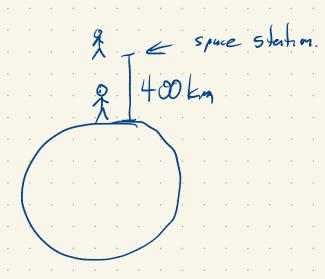
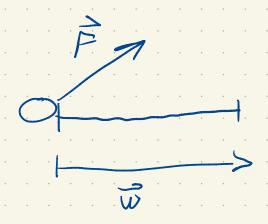
Let's put David in space



Her much work?



work done by fare:

m.g = 100 kg 9.8 m = 1000 N

Work done by smity = -400 km. 1000N

= -4 × 10 5 1 × 10 3 N

= -4 × 10 8 Nm

1 kwh = 3,6 ×106 J

50 -100 kWh , rough hy

-100 kWh , roughly bas to composable and it's 100 kule)

(10 days of our handreld energy)

But this is it exact. It should be less

becase force of graity is less as your

8.68

 $g_{200} = 9.218$

9.8.100.200x103 + (-9,22.100,200x103)

< total work doe. $\sum F(h^*) \Delta h$ the work love on me by growy going up the cone is the residere of the work Joshs down the

I need to tell you about a different kind
of the line integral that deputs on the orderations

 $\frac{\partial}{\partial x} \left(\frac{\partial}{\partial x} \right) = \frac{\partial}{\partial x} \left(\frac{\partial}{\partial x} \right) =$

 $\Delta x = x'(6)$ At ZAX = ZX/H) At → Job dx dt x(6) - x(6) by FTC This doesn't deput on in except we 50 buelands, te sign chases?

More guenty $\int_{C} g(x,y,z) dy = \int_{E_{0}}^{E_{1}} p(\hat{x}(z)) dy dt$

eg,
$$\overline{r}(B) = t \hat{\iota} + t^2 \hat{\iota} + t^3 \hat{\iota}$$

$$0 \leq \xi \leq 1$$

$$\int_{C}^{2} 4y \, dx + 3 \, 2x \, dy + 5 \, x^{2} \, y \, 2 \, dz$$

$$= \int_{C}^{1} t^{3} \, 166^{5} \, -15t^{9} \, dt = -\frac{1}{4}$$

 $GM = 3.98 \times 10^{14}$

GM, $m\left(\frac{1}{r_1}-\frac{1}{r_0}\right)=$

-3,69×108J