(SUIDEL Exampohon

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Q L P=VI

But ValR So 1= V

Thus Pa V(+)

V=100

R=100175=1750

D= (10)2 | 100 4

= 0.5714285714 ...

20.572W

az v(+) = Vpeak sin (w++ 4)

= 10 sin (2000) + =) V)

The a potential divider,

$$v_{2}(t) = v(t) \left(\frac{R_{2}}{R + R_{2}}\right)$$

$$v_{3}(t) = v(t) \left(\frac{R_{2}}{R + R_{2}}\right)$$

$$v_{4}(t) = v(t) \left(\frac{R_{2}}{R + R_{2}}\right)$$

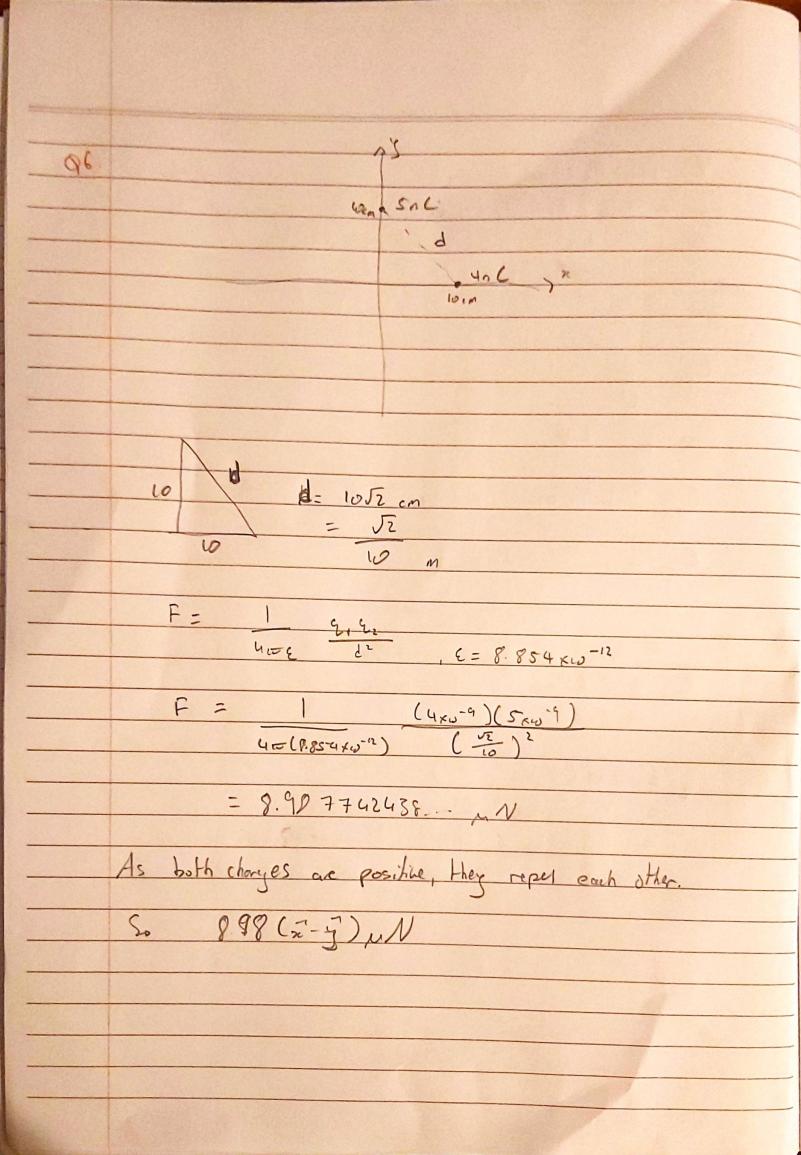
$$v_{5}(t) = v(t) \left(\frac{R_{2}}{R + R_{2}}\right)$$

$$v_{6}(t) = v(t) = v(t)$$

$$v_{6}(t) = v(t)$$

$$v_{7}(t) = v(t$$

| To write this expression in the form Revolve-a), |
|---|
| To write this expression in the form Rouslie-ce), I will compare the two expressions. |
| |
| Les (x-a) = Rosa wsx + Rsinasinx |
| |
| lunce customet + (-twoce) sin luntot |
| = Ruseusx + RsinuBinx |
| |
| So 100 = Reus a |
| -look = Rsin a |
| (1000)2 + (4000)2= R20020+R25in2a |
| = R2 (cos2 x + s, x2 x) |
| = R ² |
| |
| So R = 1(100=)2+(100=)2 |
| = 100= 52 |
| |
| e can be fund by: |
| Rsinz Luo to |
| R 51/2 100 00 100 00 |
| |
| ten a = -1 |
| 5. a = - = 1 |
| |
| 50: V= (10000 \(\frac{1}{2}\)(15\)(10\)(10\)(100 \(\frac{1}{4}\)\) |
| |
| |



$$F_{1} = 4 - (F_{ESO} - 1) - (O_{1})^{2} = 9.9977...N$$

$$F_{2} = \frac{1}{4} - (F_{ESO} - 1) - (O_{1})^{2} = 9.9977...N$$

$$F_{3} = \frac{1}{4} - (F_{2} - 1) - (O_{1})^{2} = 4.04387...N$$

$$F_{4} + F_{2} = 13.49161366...$$

$$= \sqrt{3}.49N$$

$$3600 = 13.989 \text{ ms}^{-1}$$

$$= \frac{1}{4} - (40 \text{ ms}^{-1})(2)(13.881)$$

$$= \frac{1}{900}$$

$$\approx \sqrt{1111.11} \text{ mN}$$