



**Mi Universidad**

**EJERCICIO**

*Nombre del Alumno: Blanca Yoseline Cano Vázquez*

*Nombre del tema: análisis de precios unitarios en cimentaciones*

*Unida: 1*

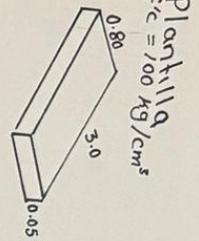
*Nombre de la Materia: costos y presupuestos 1*

*Nombre del profesor: ARQ. Abraham Alfonso Andrade*

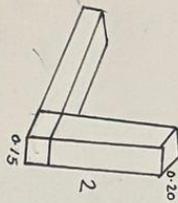
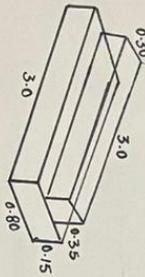
*Nombre de la Licenciatura: Arquitectura*

*Cuatrimestre: 5*

Material	Cantidad	unidad
Concreto	$f_c = 100 \text{ kg/cm}^2$	$\text{cm}^2$
Cemento	6	Bultos
Arena	0.648	$\text{m}^3$
Grava	0.864	$\text{m}^3$
Concreto	$f_c = 200 \text{ kg/cm}^2$	
Cemento	7	Bultos
Arena	0.504	$\text{m}^3$
Grava	0.765	$\text{m}^3$



Zapata y contrahabe  
 $f_c = 200 \text{ kg/cm}^2$



$$V = 0.12 \text{ m}^3$$

$$\text{Cem} = 6 \times 0.12 \text{ m}^3 = 0.72$$

$$\text{Grav} = 0.864 \times 0.12 = 0.10368$$

$$\text{Arena} = 0.648 \times 0.12 = 0.07776$$

Mas 10%	Total
0.072	0.792
0.010368	0.114048
0.007776	0.085536

$$V = 0.675$$

$$\text{Cem} = 7 \times 0.675 = 4.725$$

$$\text{Grav} = 0.765 \times 0.675 = 0.516375$$

$$\text{Arena} = 0.504 \times 0.675 = 0.3402$$

0.4725	5.1975
0.0516375	0.5680125
0.03402	0.37422

$$V = 0.114 \text{ m}^3$$

$$\text{Cem} = 7 \times 0.675 = 0.798$$

$$\text{Grav} = 0.765 \times 0.114 \text{ m}^3 = 0.08721$$

$$\text{Arena} = 0.504 \times 0.114 \text{ m}^3 = 0.057456$$

Vanilla	ml	kg/m	Peso	15%	Total
#3	89.1	0.56	49.896	7.4844	57.380
#3	7	0.56	3.92	0.588	4.508
#2.5	65.71	0.38	24.97	3.745	28.715
#3	4	0.56	2.24	0.336	2.576
#2	15.4	0.25	3.85	0.5775	4.4275
Total					97.607
Alambre de Amare 5%					4.880
					102.487