$$T(0) = 8T(2) + 20^{2}$$

T(1)-1

Dado T(n) = aT(n/b) + f(n), donde $a \ge 1$, b > 1, se puede acotar asintóticamente como sigue:

1.
$$T(n) = \Theta(n^{\log_b a})$$

Si
$$f(n)=O(n^{\log_b a-\varepsilon})$$
 para algún $\varepsilon>0$

2.
$$T(n) = \Theta(n^{\log_b a} \lg n)$$

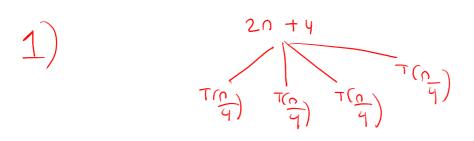
Si
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 para algún $\varepsilon > 0$

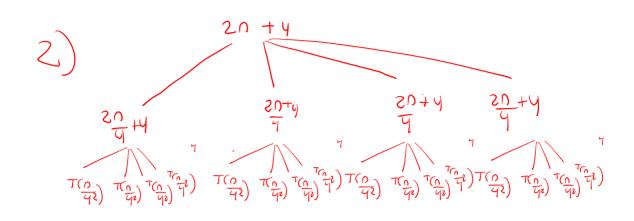
3.
$$T(n)=\Theta(f(n))$$

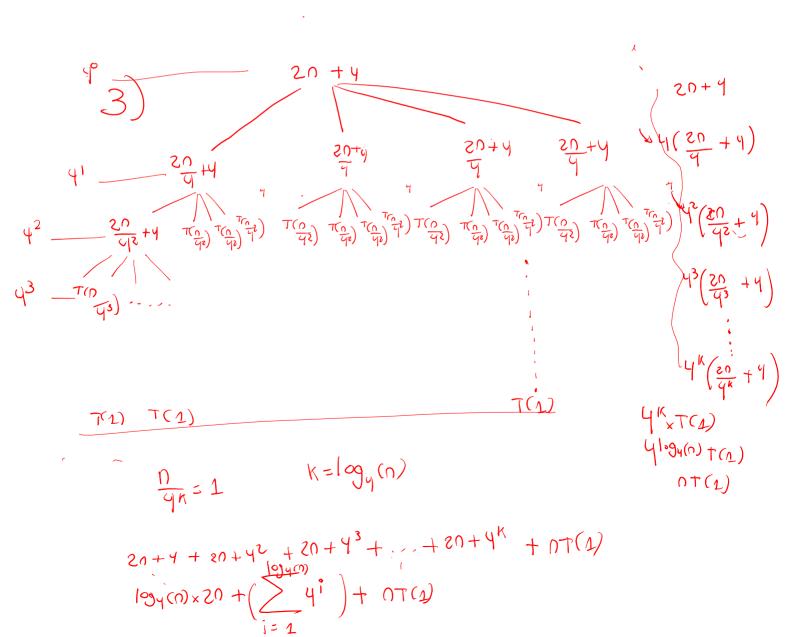
Si
$$f(n) = \Omega(n^{\log_b a + \varepsilon})$$
 para algén>0 si a*f(n/b) $\leq c*f(n)$

para alaun c<1

1096 - 1090







 $T(n) = 4T(n_y) + 2n + 4$

01 = 4 6 = 4 F (n) = 20 + 4

asintóticamente como sigue: 1. $T(n) = \Theta(n^{\log_b a})$

Si $f(n)=O(n^{\log_b a-\epsilon})$ para algún *ε>*0

2.
$$T(n) = \Theta(n^{\log_b a} \lg n)$$

Si
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 para algún $\varepsilon > 0$

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Si $f(n) = \Omega(n^{\log_b a + \varepsilon})$ para algén>0 si a*f(n/b)
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Dado T(n) = aT(n/b) + f(n), donde $a \ge 1$, b > 1, se puede acotar

para alaun c<1

$$T(n) = QT(0_{\frac{1}{4}}) + 2n^{2}$$

$$T(n) = 2n^{2} + 8(2\frac{0^{\frac{1}{4}}}{4^{2}} + 87(\frac{0}{4^{2}}))$$

$$T(n) = 2n^{2} + 8(2\frac{0^{\frac{1}{4}}}{4^{2}} + 8^{\frac{1}{4}}T(\frac{0}{4^{2}}))$$

$$T(n) = 2n^{2} + 6(2\frac{0^{\frac{1}{4}}}{4^{2}} + 8^{\frac{1}{4}}T(\frac{0}{4^{2}}))$$

$$T(n) = 2n^{2} + n^{2} + \frac{1}{2}(n^{2} + 8^{\frac{3}{4}}T(\frac{0}{4^{2}}))$$

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$$T$$

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Si
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 para algebro si $a * f(n/b)$ $\leq c * f(n)$

para alaun c<1

$$16R^{2} < C \times 2$$
 $1 < C \times 2$
 $1 < C \times 2$
 $1 < C \times 2$
 $1 < C \times 2$