Pull down

$$\frac{R}{5}$$
 X3=  $\frac{3}{5}$  R

Pull up logic effort & Parasitic delay

$$\int_{-1}^{4} \frac{14}{2 \cdot 25} = \frac{14}{2 \cdot 25 + 4 \cdot 5} = 2.07$$

$$= \frac{14}{2 \cdot 25 + 4 \cdot 5} = 2.81$$

$$= \frac{14}{4 \cdot 5 + 2 \cdot 25} = 2.81$$

Pull down

$$\int_{-0}^{4} \int_{-3.337}^{3.337} g d = \frac{14}{3.3371.667} = 2.8$$

$$\int_{-0}^{4} \int_{-3.337}^{3.337} \int_{-3.8}^{4} \int_{-3.87}^{4} \int_{-3.377}^{4} \int_{-3.877}^{4} \int_{-3$$

5) Pull of logic effort & parasitic olday

$$\begin{array}{ll} P_{4.667} & P_{4.67} & P_$$

PULL UP logic effort & parasitic delay N/A

Pull up logic effort & parasitic delay N/A

Pull down logic effort & parasitic delay

$$\frac{3R}{5} + \frac{R}{3} = 0.725$$
 $\frac{1}{0.725} = 1.38$ 
 $-015 = 2.75$ 
 $\frac{1}{1.33} = \frac{5}{2.75 + 1.33} = 1.21$ 
 $\frac{1}{2.75} + 1.33$ 

Pd =  $\frac{5}{2.75 + 1.33} = 2.66$ 

Pull up logic effort & paresitic delay

Pull down logic effort à parasitie delay

I gnd = 
$$\frac{V_{00}}{R/3} = \frac{3V_{00}}{K}$$

$$\int_{-1}^{1} \frac{1}{4} \frac{1}{9} d = \frac{9}{6} = \frac{105}{6}$$

$$\int_{-1}^{1} \frac{1}{6} d = \frac{9}{6} = \frac{105}{6}$$

$$\int_{-1}^{1} \frac{1}{4} \frac{1}{9} d = \frac{9}{6} = \frac{105}{6}$$