

BE-Precalc TUESDAY 3-30-10

① $-|2x-6| - |x^2-x|$ if $x = -3$

② $16^{\frac{3}{4}} = ?$

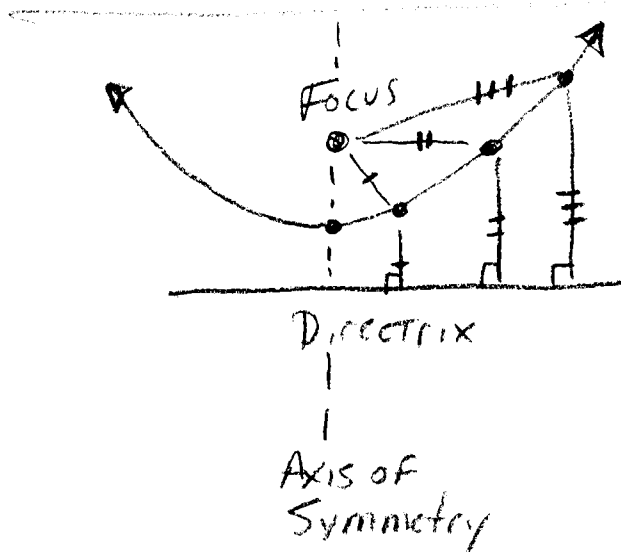
③ $\log_3 81 = ?$

④ $\frac{\sin \theta}{\cos \theta} = ?$

⑤ $\sin^2 \theta + \cos^2 \theta = ?$

Ch. 10-5 PARABOLAS

parabola set of all points that
are the same distance
from a point and a line.
(Focus) (directrix)



$$a = + \quad y = ax^2 + bx + c \quad \text{or} \quad y = a(x-h)^2 + k$$

$$a = - \quad \text{Vertex} \left(-\frac{b}{2a}, +\left(-\frac{b}{2a}\right) \right) \quad \text{Vertex} (h, k)$$

$$x = \text{AOS} \quad \text{Focus} \left(h, k + \frac{1}{4a} \right) \quad \text{Directrix} \Rightarrow y = k - \frac{1}{4a}$$

$$a = + \quad x = ay^2 + by + c \quad \text{or} \quad x = a(y-k)^2 + h$$

$$a = -$$

Conic Paper Parabola

HW: Pg. 659 #14, 18.