2B Parabolas
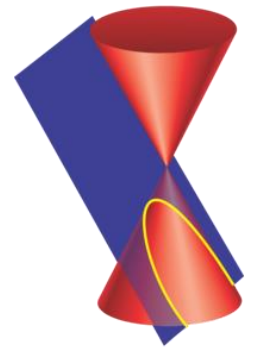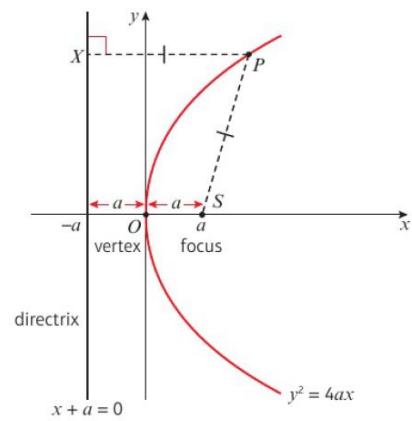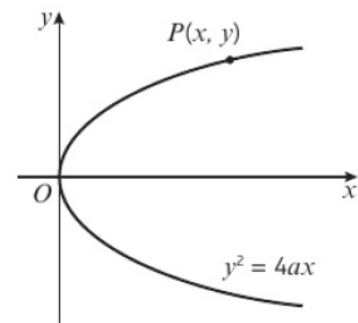

parabola

1. Find the equation of the parabola with:
a) focus: $(7,0)$ and directrix $x + 7 = 0$

b) focus $\left(\frac{\sqrt{3}}{4}, 0\right)$ and directrix $x = -\frac{\sqrt{3}}{4}$

2. Find the coordinates of the focus and an equation of the directrix of a parabola with equation:

a) $y^2 = 24x$

b) $y^2 = \sqrt{32}x$