

Class Discussion

Unit 9 Topic 1 Part 2 Parabolas

Standard forms for parabolas

$$4c(x-h) = (y-k)^2$$

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Ex 1: Find a parabola with focus at $(-4, 1)$ and vertex at $\left(-4, \frac{5}{2}\right)$, also find its possible intercepts.

Ex 2: Find a parabola passes through $(-2, 1)$ with its directrix $x = 1$ and the distance between the directrix and the focus is 5.