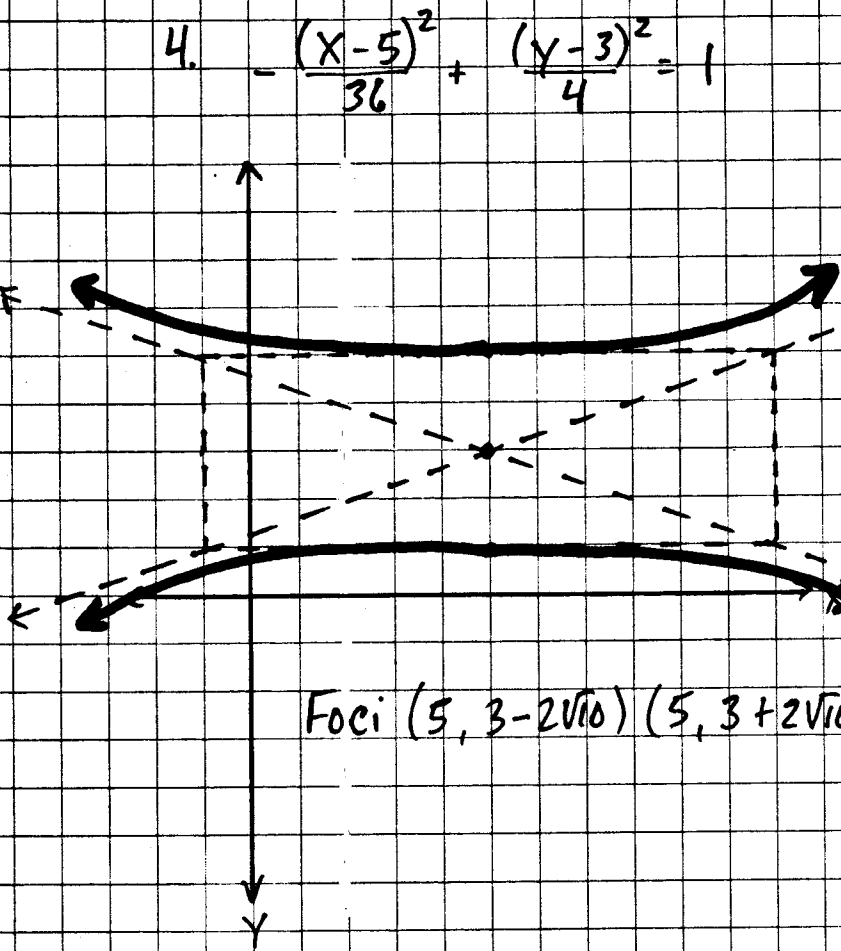
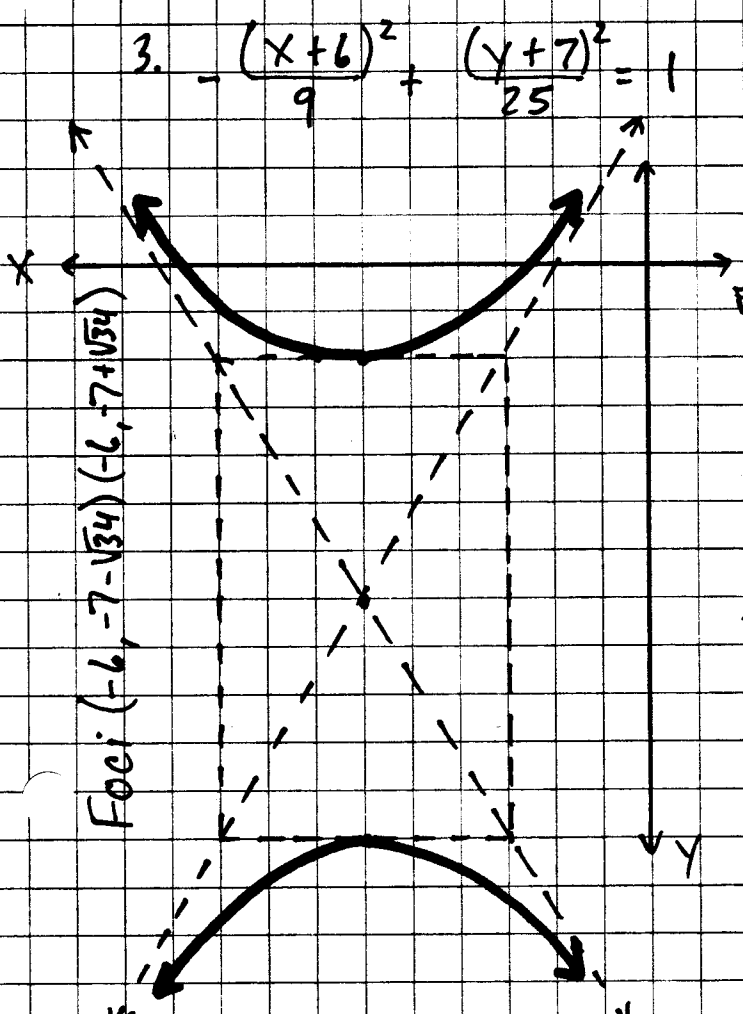
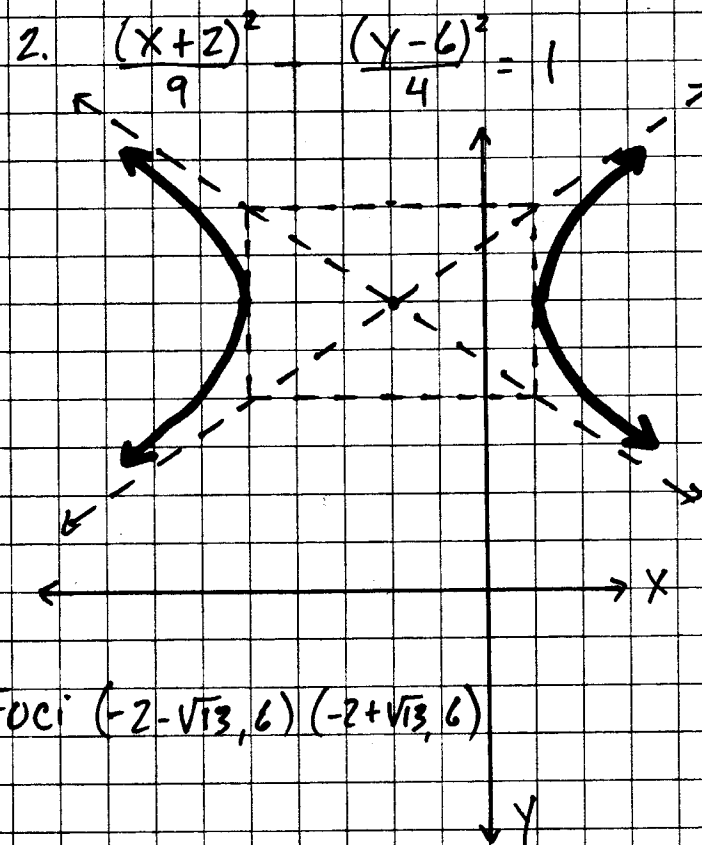
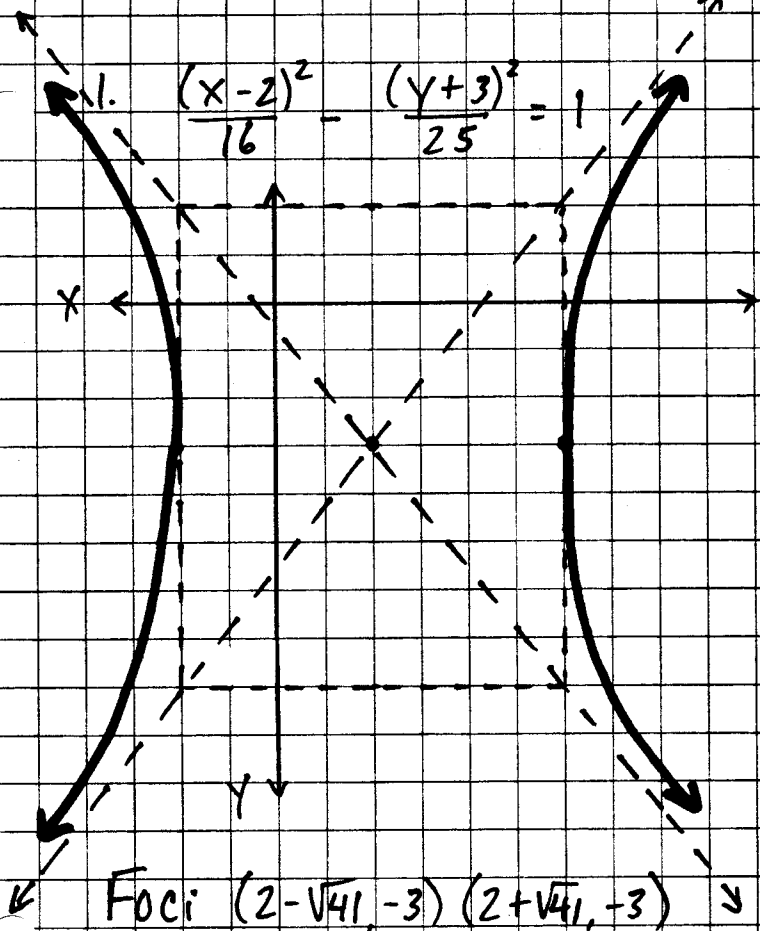
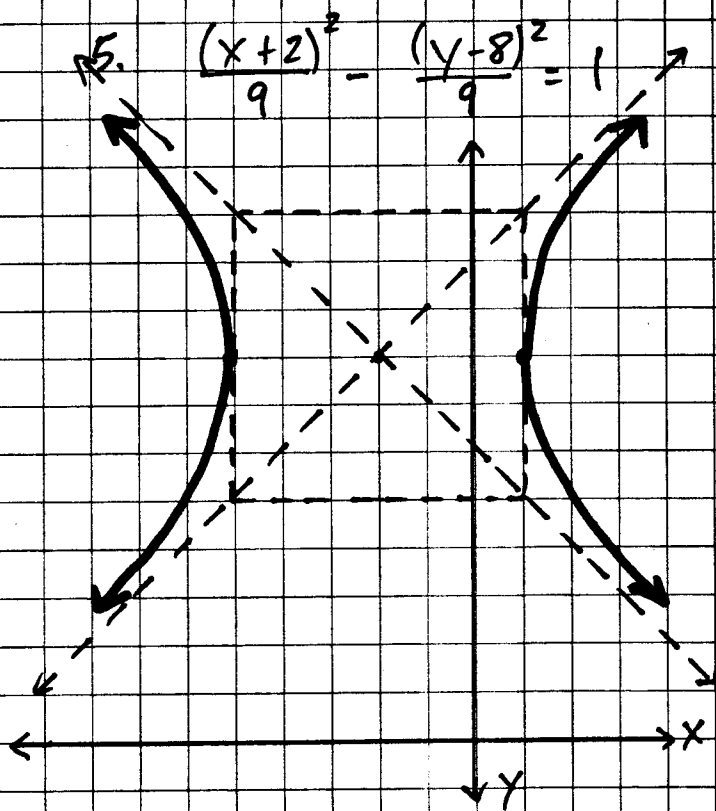
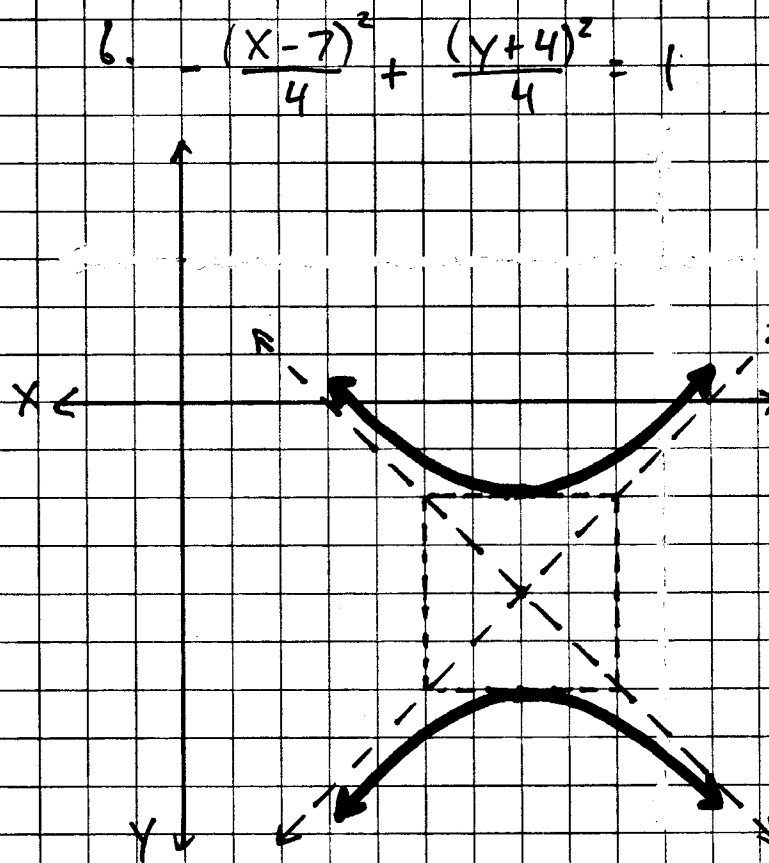


Hyperbolas

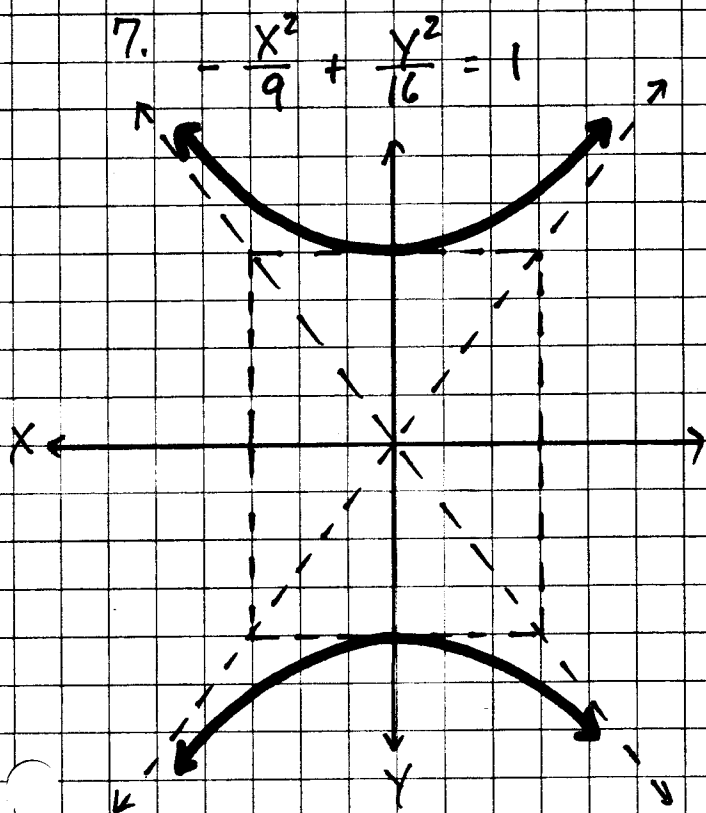




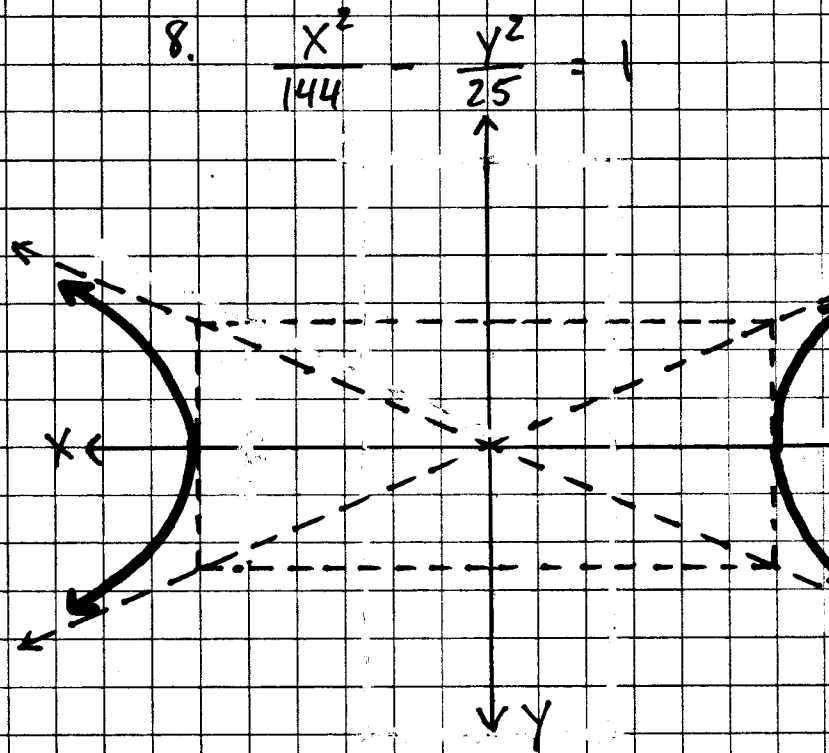
Foci $(-2-3\sqrt{2}, 8)$ $(-2+3\sqrt{2}, 8)$



Foci $(7, -4-2\sqrt{2})$ $(7, -4+2\sqrt{2})$

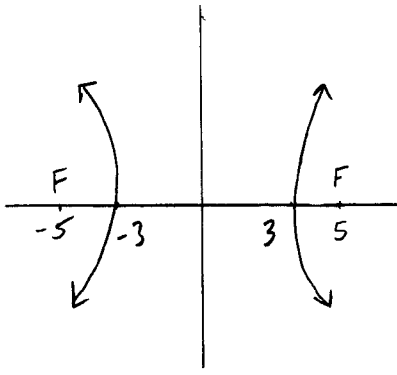


Foci $(0, -5)$ $(0, 5)$



Foci $(-13, 0)$ $(13, 0)$

9.



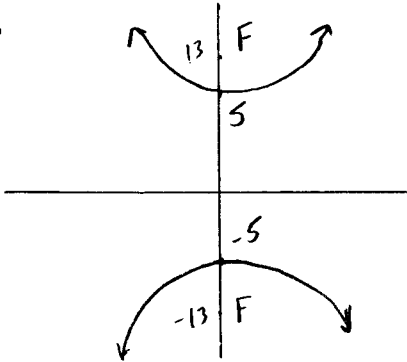
$$a = 3, c = 5$$

$$a^2 + b^2 = c^2$$

$$b = 4$$

$$\frac{x^2}{9} - \frac{y^2}{16}$$

10.



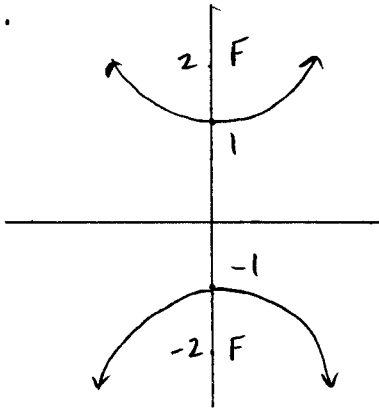
$$b = 5, c = 13$$

$$a^2 + b^2 = c^2$$

$$a = 12$$

$$-\frac{x^2}{144} + \frac{y^2}{25}$$

11.



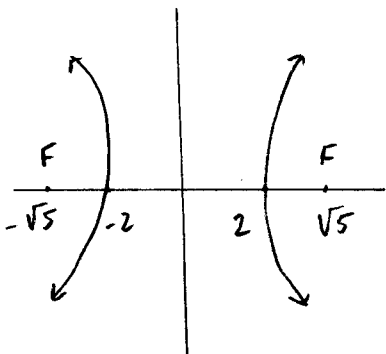
$$b = 1, c = 2$$

$$a^2 + b^2 = c^2$$

$$a = \sqrt{3}$$

$$-\frac{x^2}{3} + \frac{y^2}{1}$$

12.



$$a = 2, c = \sqrt{5}$$

$$a^2 + b^2 = c^2$$

$$b = 1$$

$$\frac{x^2}{4} - \frac{y^2}{1}$$