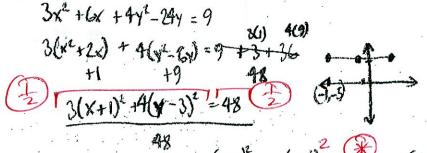
An emission is a const formed from its flower substituted and advise maked contained that countries an every the downward of exceptions as determined the concept of exceptioning

Find the foci and vertices of the ellipse $3x^2 + 4y^2 + 6x - 24y - 9 = 0$.

SCORE: ____/4 PTS



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Center = (-1,3) + (1,3).

+ e

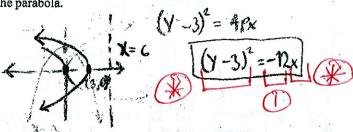
Poct = (-3,3) + (1,3).

Verticies = (-5,3) + (3,3).

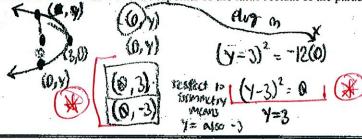
The focus of a parabola is at the origin, and its vertex is at (3, 0).

SCORE: ____/4 PTS

[a] Find the equation of the parabola.



[b] The latus rectum of a parabola is the line segment passing through the focus, perpendicular to the axis of symmetry, with both endpoints on the parabola. Find the co-ordinates of the endpoints of the latus rectum of the parabola in [a].



Fill in the blanks. NO NEED TO SHOW WORK.



SCORE: _ /2 PTS

The midpoint of the minor axis of an ellipse is called the [a]

Center

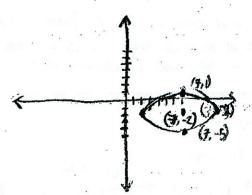
of the ellipse.

C= 8

The eccentricity of the ellipse $\frac{x^2}{6} + \frac{y^2}{10} = 1$ is [b]

Find the equation of the ellipse with foci (7, -5) and (7, 1), and a major axis of length 10.

SCORE: __



1,0,-1,-2,-1,-4,5

Find the vertex, focus and equation of the directrix of the parabola $2x^2 - 24x + y + 73 = 0$.

SCORE; ____/4 PTS

$$x^2 = 0$$
 or 0

$$2(x^2-1) = -y-72 + 36(2)$$