

## TUTORS: THIS IS A TAKE HOME QUIZ

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For each conic below:

- [1] Classify the type of the conic.
- [2] Find the rectangular equation of the directrix.
- [3] Find the center and all foci in either polar or rectangular coordinates.
- [4] Sketch the latera recta (plural of latus rectum).
- [5] Sketch the conic.

[a]  $r = \frac{12}{4 - 3 \sin \theta}$

[b]  $r = \frac{6}{3 + 2 \cos \theta}$

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