

6 April

- $\langle -3, e, 3 \rangle$.
 - $\sqrt{18 + e^2}$.
- Saddles at $(0, 0)$ and $(-2, -6)$.
- 18.
 - Not covered.
- $\int_0^{\sqrt{3}} \int_0^{x^2} f(x, y) dy dx + \int_{\sqrt{3}}^3 \int_0^3 f(x, y) dy dx$.
- $\frac{81\pi}{2}$.