









Center =
$$(0,3)$$

(1)
$$R = \frac{MU}{9B} = \frac{3 \times 8}{2 \times 4} = 3$$

3
$$M = \frac{1}{54} = \frac{3}{8}$$

(5)
$$\pi = (3 \sin \frac{8}{3}t) + (3-3 \cos \frac{8}{3}t)$$

$$T = \frac{2\pi M}{9B} = \frac{2\pi \times 3}{2\times 4}$$

$$f = \frac{1}{7} = \frac{4}{3\pi}$$