$$R = D / 2$$

$$WE = \sqrt{x^2 + y^2}$$

$$WE^2 = x_E^2 + y_E^2 = x_E^2 + a^2 x_E^2$$

$$x_E = \frac{WE}{\sqrt{1 + a^2}}$$

$$x_E = \frac{3R}{\sqrt{1 + a^2}}$$

$$y_E = \frac{3aR}{\sqrt{1 + a^2}}$$

$$y = y_E + b(x - x_E)$$

$$y = 3R + m$$

$$3R + m = y_E + b(x - x_E)$$

$$x_B = (3R + m - y_E + a x_E) / a$$

$$x_C = 3R + m$$

$$y_C = y_E + a(3R + m - x_E)$$

$$(y_Q - y_P) / OA$$

$$y = y_P + (x - x_P)\frac{(y_B - y_C)}{(x_B - x_C)}$$

$$y = \frac{y_B}{x_B} x$$

$$x_{S2} = x_{S1} + m + R$$

$$y_{S2} = y_{S1} + m + R$$

$$m + R + \frac{3R}{\sqrt{1 + (w / h)^2}}$$

$$m + R + \frac{3wR}{h\sqrt{1 + (w / h)^2}}$$

$$m + R + (3R + m - y_E + a x_E) / a$$

$$m + R + y_E + a(3R + m - x_E)$$

$$x_O, y_O$$

$$y = y_P + a(x - x_P)$$

$$y = bx$$

$$x_S = \frac{a x_P - y_P}{a - b}$$

$$\frac{x_B - x_S}{x_B}$$

$$\sqrt{(4.0i)^2 + (1.6j)^2}$$