

$$|OQ| =: q$$

 $|PQ| = \sqrt{q^2 - r^2}$
 $\sin \alpha = \frac{r}{q}$

Circle with radius r:

$$\mathbf{P} = \left(\frac{r^2}{q}, r\sqrt{1 - \frac{r^2}{q^2}}\right)$$

Ellipse with horizontal radius a and vertical radius b:

$$|OQ| =: q$$

$$|PQ| = \sqrt{(q^2 + b^2 - a^2) \left(1 - \frac{a^2}{q^2}\right)}$$

$$|OQ| = q$$

$$|PQ| = \sqrt{(q^2 + q^2)}$$

$$|PQ| = \sqrt{(q^2 + b^2)}$$

$$|PQ| = \sqrt{(q^2 + b)}$$

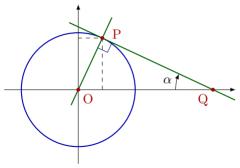
$$|PQ| = \sqrt{(q^2 + t^2)}$$
$$\sin \alpha = \frac{a}{-}$$

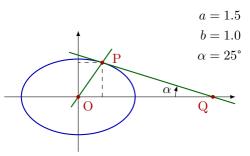
$$\sin \alpha = \frac{a}{2}$$

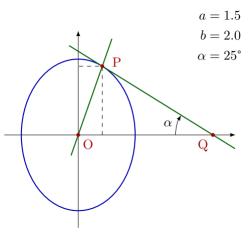
$$\alpha = \frac{a}{a}$$

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- $P = \left(\frac{a^2}{q}, b\sqrt{1 \frac{a^2}{q^2}}\right)$







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|OQ| = \frac{r}{\sin \alpha}
|PQ| = r|\cot \alpha|
P = (r; 90 - \alpha) = (r \sin \alpha, r \cos \alpha)
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Circle with radius r:

Ellipse with horizontal radius a and vertical radius b:

 $|OQ| = \frac{a}{\sin \alpha}$

$$|OQ| = \frac{1}{\sin \alpha}$$

$$|PQ| = \sqrt{\frac{a^2}{\sin^2 \alpha} + b^2 - a^2} |\cos \alpha|$$

 $P = (a \sin \alpha, b \cos \alpha)$

