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

$$d^{2} = x^{2} + y^{2}$$

$$dd^{2} = \frac{1}{2x^{2} + 2y^{2}}$$

$$2dd' = 2x + 2yy'$$

$$d' = \frac{1}{2x^{2} + 2yy'}$$

$$(x + yy') = 0$$

$$x + yy' = 0$$