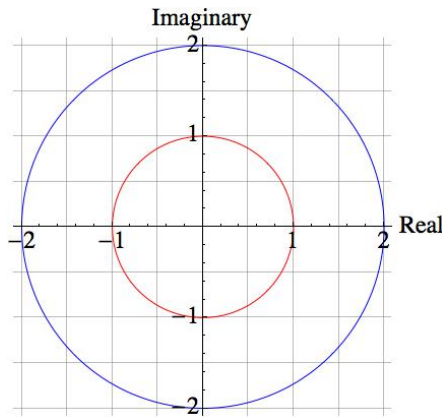


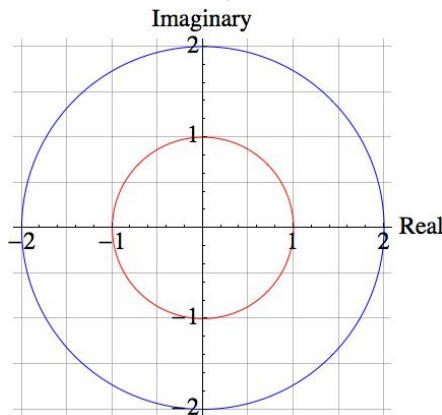
## Algebra II/Trig: Complex Numbers

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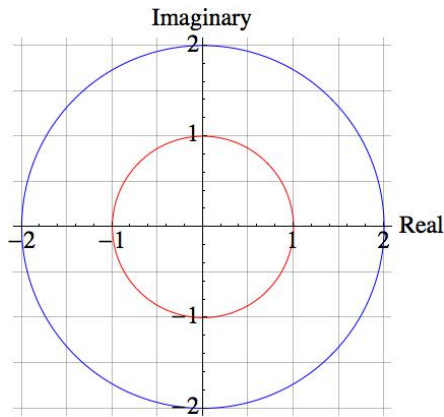
### 1 Plot the following complex numbers



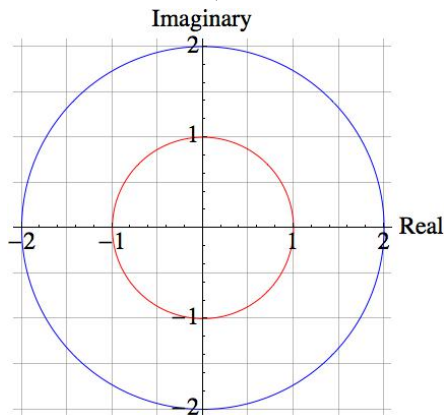
$$1 + i$$



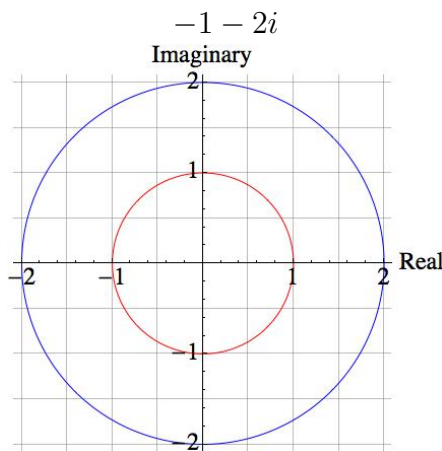
$$1 + i$$



$$2 + 0i$$

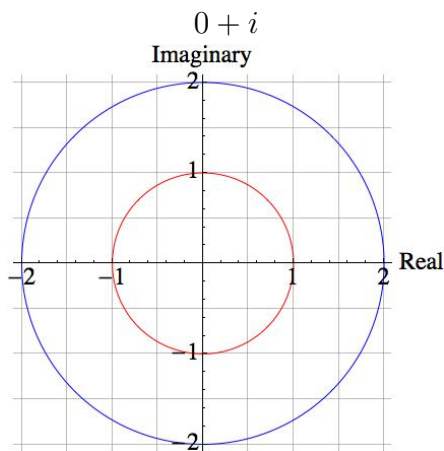


$$2 + 0i$$



$$-1 - 2i$$

$$-1 - 2i$$



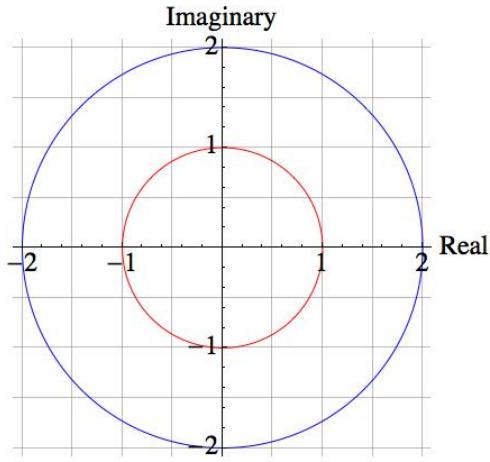
$$0 + i$$

$$0 + i$$

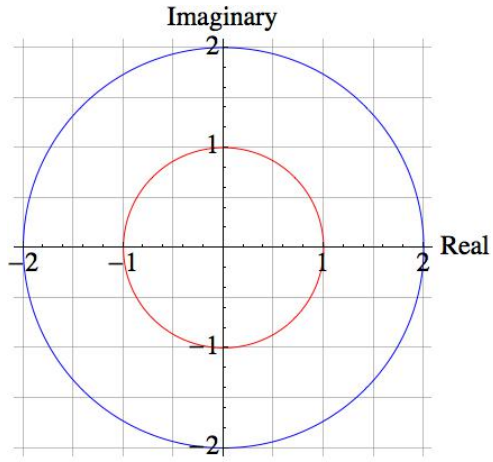
$$1/\sqrt{2} - i/\sqrt{2}$$

$$-\sqrt{2} + \sqrt{-2}$$

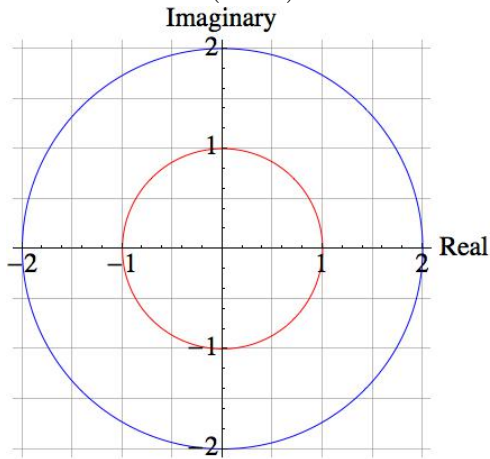
2 Plot the *same* numbers, but multiplied by the given number



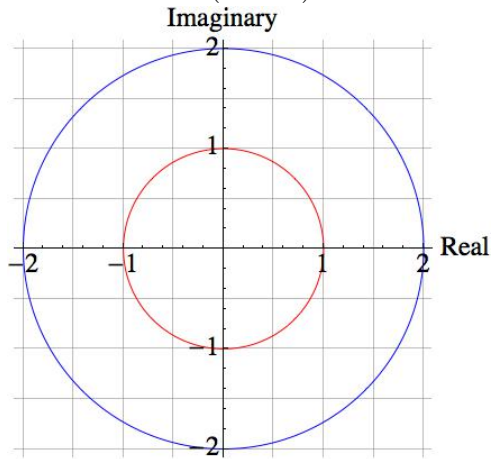
$$i(1+i)$$



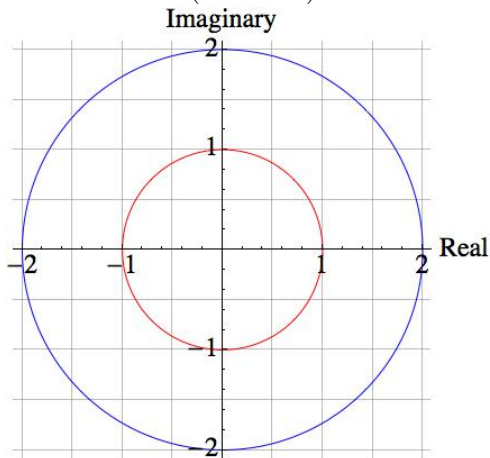
$$i^2(2+0i)$$



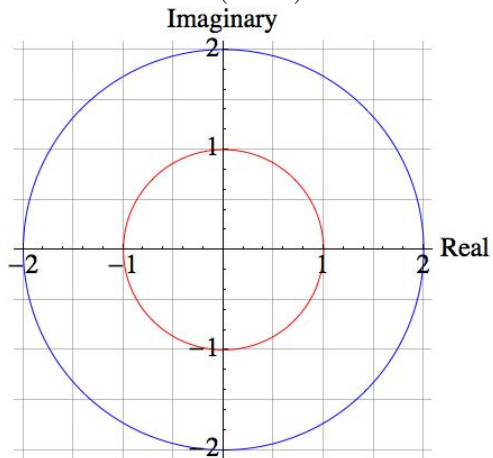
$$i(-1-2i)$$



$$i^2(0+i)$$



$$i(1/\sqrt{2} - i/\sqrt{2})$$



$$i^2(-\sqrt{2} + \sqrt{-2})$$