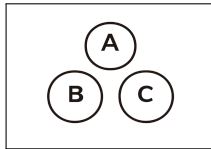


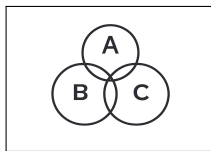
7

Basic Properties and Facts
Complex Numbers

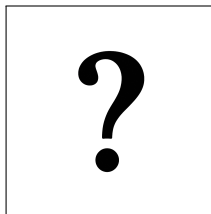
F



$$\frac{1}{4+3i} = \frac{4-3i}{4^2+3^2} = \frac{4-3i}{25} = \frac{4}{25} - \frac{3}{25}i$$



$$1/(a+bi) = (a-bi)/(a^2+b^2)$$

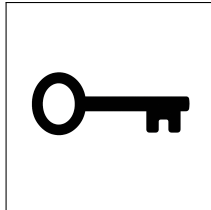


$$\frac{1}{10+13i} = ?$$

7

Basic Properties and Facts
Complex Numbers

F



$$\frac{1}{10+13i} = \frac{10-13i}{10^2+13^2} = \frac{10-13i}{269} = \frac{10}{269} - \frac{13}{269}i$$