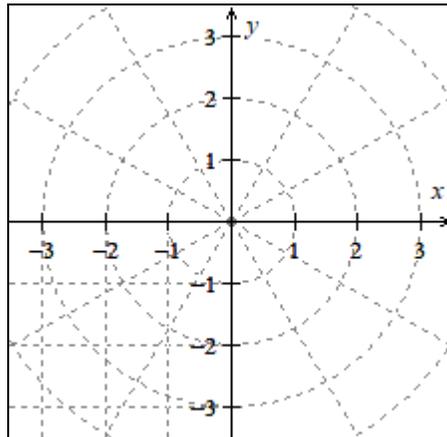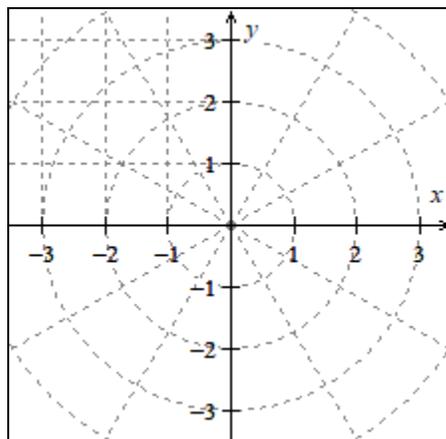# Class Discussion: Complex Numbers & Polar Coordinates

EXAMPLE: Find the rectangular form, $a + bi$,

of the complex number $3e^{i \cdot \frac{4\pi}{3}}$.

EXAMPLE: Find (an approximate) polar form, $re^{i \cdot \theta}$,
of the complex number $-3 + 2i$.

EXAMPLE: Find the **three** distinct (complex) cube roots of -8 by interpreting -8 as a complex number and then finding three distinct polar forms of this complex number using three co-terminal angles.