

Name: _____

Dividing Complex Numbers

Simplify by dividing

$$\textcircled{1} \quad \frac{-2 - 9i}{-2 + 7i}$$

=

$$\textcircled{2} \quad \frac{4 + 2i}{5 - 3i}$$

=

$$\textcircled{3} \quad \frac{3 + 9i}{-6 - 6i}$$

$$\textcircled{4} \quad \frac{2 + i}{3i}$$

=

$$\textcircled{5} \quad \frac{1 + 5i}{-8 - 7i}$$

=

$$\textcircled{6} \quad \frac{3 + 5i}{2i}$$

=

$$\textcircled{7} \quad \frac{3 + 10i}{5i}$$

=

$$\textcircled{8} \quad \frac{2 + 6i}{4 + i}$$

=

Name: _____

Dividing Complex Numbers

Simplify by dividing

$$\textcircled{1} \quad \frac{-2 - 9i}{-2 + 7i}$$

$$= \frac{-59 + 32i}{53}$$

$$\textcircled{2} \quad \frac{4 + 2i}{5 - 3i}$$

$$= \frac{7 + 11i}{17}$$

$$\textcircled{3} \quad \frac{3 + 9i}{-6 - 6i}$$

$$\frac{-2 - i}{2}$$

$$\textcircled{4} \quad \frac{2 + i}{3i}$$

$$= \frac{1 - 2i}{3}$$

$$\textcircled{5} \quad \frac{1 + 5i}{-8 - 7i}$$

$$= \frac{-43 - 33i}{113}$$

$$\textcircled{6} \quad \frac{3 + 5i}{2i}$$

$$= \frac{5 - 3i}{2}$$

$$\textcircled{7} \quad \frac{3 + 10i}{5i}$$

$$= \frac{10 - 3i}{5}$$

$$\textcircled{8} \quad \frac{2 + 6i}{4 + i}$$

$$= \frac{14 + 22i}{17}$$