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(1) a)
$$z_1 + z_2 = (3+8i) + (-43-10i)$$

$$= 3+8i - 43-10i$$

$$= -40-2i$$
b) $z_1-z_1 = (3+8i) - (-43-10i)$

$$= 3+8i+43+10i$$

$$= 46+18i$$
c) $z_1/z_2 = 3+6i$

$$= \frac{3+8i}{-43-10i} \cdot \frac{-43+10i}{-43+10i}$$

$$= \frac{-129+30i-344i+80i^{2}}{1849-100i^{2}-1}$$

$$= \frac{-129-314i-80}{1949}$$

