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$$(a) \quad \mathbf{a} + \mathbf{b} = \langle -8, 4 \rangle + \langle 8, 8 \rangle = \langle -8 + 8, 4 + 8 \rangle = \langle 0, 12 \rangle$$

$$(b) \quad \mathbf{a} - \mathbf{b} = \langle -8, 4 \rangle - \langle 8, 8 \rangle = \langle -8 - 8, 4 - 8 \rangle = \langle -16, -4 \rangle$$

$$(c) \quad -\mathbf{a} = -\langle -8, 4 \rangle = \langle 8, -4 \rangle$$