

9.8.

$$a = -2i + k, \quad b = i + j + 3k, \quad c = 4i - j + 5k$$

$$\vec{a}(-2; 0; 1), \quad \vec{b}(1; 1; 3) \quad \vec{c}(4; -1; 5)$$

$$\vec{b} - 2\vec{c} = (1; 1; 3) - 2 \cdot (4; -1; 5) = (-7; 3; -7)$$

$$\vec{b} + \vec{c} = (1; 1; 3) + (4; -1; 5) = (5; 0; 8)$$

$$\text{npa}(\vec{b} - 2\vec{c}) = \frac{(-7; 3; -7) \cdot (-2; 0; 1)}{(-2; 0; 1)} = \frac{4}{\sqrt{5}} = \frac{4\sqrt{5}}{5}$$

$$\text{np} \vec{b} + \vec{c} \vec{a} = \frac{(5; 0; 8) \cdot (-2; 0; 1)}{(5; 0; 8)} = \frac{-2}{\sqrt{89}} = \frac{-2\sqrt{89}}{89}$$