

$$2) p=(2, -2, 1) \quad q=(2, 3, 2)$$

$$p+q = (4, 1, 3) \quad p-q = (0, -5, -1)$$

$$|p| = \sqrt{2^2 + (-2)^2 + 1^2} \quad |q| = \sqrt{2^2 + 3^2 + 2^2}$$

$$|p+q| = \sqrt{4^2 + 1^2 + 3^2} \quad |p-q| = \sqrt{0^2 + (-5)^2 + (-1)^2}$$

$$|p+q|^2 = |p|^2 + |q|^2$$

$$|p-q|^2 = |p|^2 + |q|^2$$

$$\sqrt{26}^2 = \sqrt{9}^2 + \sqrt{17}^2$$

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PERPENDICULAR