

$$Ans1 = \begin{bmatrix} ans.2 = (AB = \langle -5, 4 \rangle) \\ ans.3 = (AB = -5i + 4j) \\ ans.4 = (|AB| = (\sqrt{41}, 6.403)) \\ ans.5 = (u = -0.781i + 0.625j) \\ ans.6 = (c = -5.466i + 4.373j) \\ ans.7 = (d = 7.028i - 5.622j) \end{bmatrix}, \quad Ans2 = \begin{bmatrix} ans.2 = (AB = \langle -6, 3 \rangle) \\ ans.3 = (AB = -6i + 3j) \\ ans.4 = (|AB| = (3\sqrt{5}, 6.708)) \\ ans.5 = (u = -0.894i + 0.447j) \\ ans.6 = (c = -4.472i + 2.236j) \\ ans.7 = (d = 7.155i - 3.578j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = \langle 9, -9, 7 \rangle) \\ ans.2 = (AB = 9i - 9j + 7k) \\ ans.3 = (|AB| = (\sqrt{211}, 14.526)) \\ ans.4 = (u = 0.620i - 0.620j + 0.482k) \\ ans.5 = (c = 4.957i - 4.957j + 3.855k) \\ ans.6 = (d = -3.718i + 3.718j - 2.891k) \end{bmatrix}, \quad Ans4 = \begin{bmatrix} ans.1 = (AB = \langle -3, 5, -13 \rangle) \\ ans.2 = (AB = -3i + 5j - 13k) \\ ans.3 = (|AB| = (\sqrt{203}, 14.248)) \\ ans.4 = (u = -0.211i + 0.351j - 0.912k) \\ ans.5 = (c = -1.474i + 2.457j - 6.387k) \\ ans.6 = (d = 1.684i - 2.807j + 7.299k) \end{bmatrix}$$

$$Ans5 = \langle 10, 1 \rangle, \quad Ans6 = \langle -31, 38 \rangle, \quad Ans7 = \langle 26, -18, -18 \rangle, \quad Ans8 = \langle -24, -40, 32 \rangle$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [\sqrt{106}, 10.296]] \\ ans.2 = \begin{bmatrix} b = \langle -35, -63 \rangle \\ |b| = [7\sqrt{106}, 72.069] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = \langle 25, 45 \rangle \\ |c| = [5\sqrt{106}, 51.478] \end{bmatrix} \end{bmatrix}, \quad Ans10 = \begin{bmatrix} a + b = \langle -6, 14 \rangle \\ |a| = [5\sqrt{10}, 15.811] \\ |b| = [\sqrt{74}, 8.602] \\ |a + b| = [2\sqrt{58}, 15.232] \end{bmatrix}, \quad Ans11 = \begin{bmatrix} a - b = \langle -20, 4 \rangle \\ |a| = [5\sqrt{10}, 15.811] \\ |b| = [\sqrt{74}, 8.602] \\ |a - b| = [4\sqrt{26}, 20.396] \end{bmatrix}, \quad \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = \langle -14, 2, -13 \rangle \\ |a| = [5\sqrt{5}, 11.180] \\ |b| = [\sqrt{134}, 11.576] \\ |a + b| = [3\sqrt{41}, 19.209] \end{bmatrix}, \quad Ans13 = \begin{bmatrix} a - b = \langle -2, -12, 1 \rangle \\ |a| = [5\sqrt{5}, 11.180] \\ |b| = [\sqrt{134}, 11.576] \\ |a - b| = [\sqrt{149}, 12.207] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{61}, 7.810]) \\ ans.3 = (\theta = 50.194 \text{ degrees}) \end{bmatrix}, \quad Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{130}, 11.402]) \\ ans.3 = (\theta = 232.125 \text{ degrees}) \end{bmatrix}$$

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