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Vector01 Answers for No.14598

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <3, -8>) \\ ans.3 = (AB = 3\,i - 8\,j) \\ ans.4 = (|AB| = (\sqrt{73}, 8.544)) \\ ans.5 = (u = 0.351\,i - 0.936\,j) \\ ans.6 = (c = 2.458\,i - 6.554\,j) \\ ans.7 = (d = -2.107\,i + 5.618\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <-11, 7>) \\ ans.3 = (AB = -11\,i + 7\,j) \\ ans.4 = (|AB| = (\sqrt{170}, 13.038)) \\ ans.5 = (u = -0.844\,i + 0.537\,j) \\ ans.6 = (c = -6.749\,i + 4.295\,j) \\ ans.7 = (d = 5.906\,i - 3.758\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <-7, 6, -3>) \\ ans.2 = (AB = -7\,i + 6\,j - 3\,k) \\ ans.3 = (|AB| = (\sqrt{94}, 9.695)) \\ ans.4 = (u = -0.722\,i + 0.619\,j - 0.309\,k) \\ ans.5 = (c = -5.054\,i + 4.332\,j - 2.166\,k) \\ ans.6 = (d = 5.776\,i - 4.951\,j + 2.475\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <-9, -6, -5>) \\ ans.2 = (AB = -9\,i - 6\,j - 5\,k) \\ ans.3 = (|AB| = (\sqrt{142}, 11.916)) \\ ans.4 = (u = -0.755\,i - 0.504\,j - 0.420\,k) \\ ans.5 = (c = -3.776\,i - 2.518\,j - 2.098\,k) \\ ans.6 = (d = 5.287\,i + 3.525\,j + 2.937\,k) \end{bmatrix}$$

$$Ans5 = <-24, 6>, \quad , Ans6 = <-58, 37>, \quad , Ans7 = <2, 36, -32>, \quad , Ans8 = <-10, 32, -25>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [\sqrt{130}, 11.402]] \\ ans.2 = \begin{bmatrix} b = <-35, 45> \\ |b| = [5\sqrt{130}, 57.009] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <42, -54> \\ |c| = [6\sqrt{130}, 68.411] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <3, 20> \\ |a| = [\sqrt{145}, 12.042] \\ |b| = [6\sqrt{5}, 13.416] \\ |a + b| = [\sqrt{409}, 20.224] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <15, -4> \\ |a| = [\sqrt{145}, 12.042] \\ |b| = [6\sqrt{5}, 13.416] \\ |a - b| = [\sqrt{241}, 15.524] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <-16, 1, 5> \\ |a| = [\sqrt{230}, 15.166] \\ |b| = [\sqrt{206}, 14.353] \\ |a + b| = [\sqrt{282}, 16.793] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <2, -19, 15> \\ |a| = [\sqrt{230}, 15.166] \\ |b| = [\sqrt{206}, 14.353] \\ |a - b| = [\sqrt{590}, 24.290] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{106}, 10.296]) \\ ans.3 = (\theta = 29.055\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{106}, 10.296]) \\ ans.3 = (\theta = 209.055\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.14624

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <-3\,,\,3>) \\ ans.3 = (AB = -3\,i + 3\,j) \\ ans.4 = (|AB| = (3\sqrt{2}, 4.243)) \\ ans.5 = (u = -0.707\,i + 0.707\,j) \\ ans.6 = (c = -5.657\,i + 5.657\,j) \\ ans.7 = (d = 4.950\,i - 4.950\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <10\,,\,-3>) \\ ans.3 = (AB = 10\,i - 3\,j) \\ ans.4 = (|AB| = (\sqrt{109}, 10.440)) \\ ans.5 = (u = 0.958\,i - 0.287\,j) \\ ans.6 = (c = 7.663\,i - 2.299\,j) \\ ans.7 = (d = -4.789\,i + 1.437\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <-3\,,\,6\,,\,6>) \\ ans.2 = (AB = -3\,i + 6\,j + 6\,k) \\ ans.3 = (|AB| = (9, 9.000)) \\ ans.4 = (u = -0.333\,i + 0.667\,j + 0.667\,k) \\ ans.5 = (c = -2.000\,i + 4.000\,j + 4.000\,k) \\ ans.6 = (d = 1.667\,i - 3.333\,j - 3.333\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <-12\,,\,4\,,\,9>) \\ ans.2 = (AB = -12\,i + 4\,j + 9\,k) \\ ans.3 = (|AB| = (\sqrt{241}, 15.524)) \\ ans.4 = (u = -0.773\,i + 0.258\,j + 0.580\,k) \\ ans.5 = (c = -4.638\,i + 1.546\,j + 3.478\,k) \\ ans.6 = (d = 6.184\,i - 2.061\,j - 4.638\,k) \end{bmatrix}$$

$$Ans5 = <-21\,,\,-34>, \quad , Ans6 = <30\,,\,-10>, \quad , Ans7 = <17\,,\,-19\,,\,8>, \quad , Ans8 = <-31\,,\,4\,,\,-12>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [10, 10.000]] \\ ans.2 = \begin{bmatrix} b = <18\,,\,24> \\ |b| = [30, 30.000] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <-36\,,\,-48> \\ |c| = [60, 60.000] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <18\,,\,-3> \\ |a| = [10, 10.000] \\ |b| = [13, 13.000] \\ |a + b| = [3\sqrt{37}, 18.248] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <-6\,,\,-13> \\ |a| = [10, 10.000] \\ |b| = [13, 13.000] \\ |a - b| = [\sqrt{205}, 14.318] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <6\,,\,-19\,,\,5> \\ |a| = [\sqrt{182}, 13.491] \\ |b| = [\sqrt{326}, 18.055] \\ |a + b| = [\sqrt{422}, 20.543] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <-16\,,\,7\,,\,17> \\ |a| = [\sqrt{182}, 13.491] \\ |b| = [\sqrt{326}, 18.055] \\ |a - b| = [3\sqrt{66}, 24.372] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{61}, 7.810]) \\ ans.3 = (\theta = 39.806\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{106}, 10.296]) \\ ans.3 = (\theta = 330.945\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.14641

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <-7, -5>) \\ ans.3 = (AB = -7\,i - 5\,j) \\ ans.4 = (|AB| = (\sqrt{74}, 8.602)) \\ ans.5 = (u = -0.814\,i - 0.581\,j) \\ ans.6 = (c = -4.069\,i - 2.906\,j) \\ ans.7 = (d = 6.510\,i + 4.650\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <-3, -10>) \\ ans.3 = (AB = -3\,i - 10\,j) \\ ans.4 = (|AB| = (\sqrt{109}, 10.440)) \\ ans.5 = (u = -0.287\,i - 0.958\,j) \\ ans.6 = (c = -2.011\,i - 6.705\,j) \\ ans.7 = (d = 1.724\,i + 5.747\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <5, 5, -6>) \\ ans.2 = (AB = 5\,i + 5\,j - 6\,k) \\ ans.3 = (|AB| = (\sqrt{86}, 9.274)) \\ ans.4 = (u = 0.539\,i + 0.539\,j - 0.647\,k) \\ ans.5 = (c = 3.235\,i + 3.235\,j - 3.882\,k) \\ ans.6 = (d = -3.774\,i - 3.774\,j + 4.529\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <6, -7, 8>) \\ ans.2 = (AB = 6\,i - 7\,j + 8\,k) \\ ans.3 = (|AB| = (\sqrt{149}, 12.207)) \\ ans.4 = (u = 0.492\,i - 0.573\,j + 0.655\,k) \\ ans.5 = (c = 2.458\,i - 2.867\,j + 3.277\,k) \\ ans.6 = (d = -3.441\,i + 4.014\,j - 4.588\,k) \end{bmatrix}$$

$$Ans5 = <16, -16>, \quad , Ans6 = <7, -6>, \quad , Ans7 = <-55, -19, -26>, \quad , Ans8 = <12, -11, 6>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [\sqrt{130}, 11.402]] \\ ans.2 = \begin{bmatrix} b = <-63, 49> \\ |b| = [7\sqrt{130}, 79.812] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <54, -42> \\ |c| = [6\sqrt{130}, 68.411] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <17, -3> \\ |a| = [\sqrt{185}, 13.601] \\ |b| = [\sqrt{157}, 12.530] \\ |a + b| = [\sqrt{298}, 17.263] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <5, 19> \\ |a| = [\sqrt{185}, 13.601] \\ |b| = [\sqrt{157}, 12.530] \\ |a - b| = [\sqrt{386}, 19.647] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <1, -3, 6> \\ |a| = [\sqrt{266}, 16.310] \\ |b| = [5\sqrt{6}, 12.247] \\ |a + b| = [\sqrt{46}, 6.782] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <-19, -13, 16> \\ |a| = [\sqrt{266}, 16.310] \\ |b| = [5\sqrt{6}, 12.247] \\ |a - b| = [\sqrt{786}, 28.036] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{74}, 8.602]) \\ ans.3 = (\theta = 35.538\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{61}, 7.810]) \\ ans.3 = (\theta = 140.194\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.14681

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <5, -3>) \\ ans.3 = (AB = 5\,i - 3\,j) \\ ans.4 = (|AB| = (\sqrt{34}, 5.831)) \\ ans.5 = (u = 0.857\,i - 0.514\,j) \\ ans.6 = (c = 5.145\,i - 3.087\,j) \\ ans.7 = (d = -6.002\,i + 3.601\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <-13, -7>) \\ ans.3 = (AB = -13\,i - 7\,j) \\ ans.4 = (|AB| = (\sqrt{218}, 14.765)) \\ ans.5 = (u = -0.880\,i - 0.474\,j) \\ ans.6 = (c = -7.044\,i - 3.793\,j) \\ ans.7 = (d = 7.924\,i + 4.267\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <-3, 7, -4>) \\ ans.2 = (AB = -3\,i + 7\,j - 4\,k) \\ ans.3 = (|AB| = (\sqrt{74}, 8.602)) \\ ans.4 = (u = -0.349\,i + 0.814\,j - 0.465\,k) \\ ans.5 = (c = -2.790\,i + 6.510\,j - 3.720\,k) \\ ans.6 = (d = 1.744\,i - 4.069\,j + 2.325\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <6, 5, -7>) \\ ans.2 = (AB = 6\,i + 5\,j - 7\,k) \\ ans.3 = (|AB| = (\sqrt{110}, 10.488)) \\ ans.4 = (u = 0.572\,i + 0.477\,j - 0.667\,k) \\ ans.5 = (c = 4.577\,i + 3.814\,j - 5.339\,k) \\ ans.6 = (d = -2.860\,i - 2.384\,j + 3.337\,k) \end{bmatrix}$$

$$Ans5 = <-18, -16>, \quad , Ans6 = <-46, 11>, \quad , Ans7 = <15, -7, -49>, \quad , Ans8 = <-27, 25, -24>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [10, 10.000]] \\ ans.2 = \begin{bmatrix} b = <-40, 30> \\ |b| = [50, 50.000] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <24, -18> \\ |c| = [30, 30.000] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <20, 1> \\ |a| = [\sqrt{113}, 10.630] \\ |b| = [\sqrt{218}, 14.765] \\ |a + b| = [\sqrt{401}, 20.025] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <-6, 15> \\ |a| = [\sqrt{113}, 10.630] \\ |b| = [\sqrt{218}, 14.765] \\ |a - b| = [3\sqrt{29}, 16.155] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <-2, -2, 4> \\ |a| = [\sqrt{134}, 11.576] \\ |b| = [\sqrt{206}, 14.353] \\ |a + b| = [2\sqrt{6}, 4.899] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <-12, 16, -16> \\ |a| = [\sqrt{134}, 11.576] \\ |b| = [\sqrt{206}, 14.353] \\ |a - b| = [4\sqrt{41}, 25.612] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{130}, 11.402]) \\ ans.3 = (\theta = 52.125\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{145}, 12.042]) \\ ans.3 = (\theta = 311.634\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.14688

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <-4\,,\,7>) \\ ans.3 = (AB = -4\,i + 7\,j) \\ ans.4 = (|AB| = (\sqrt{65}\,,\,8.062)) \\ ans.5 = (u = -0.496\,i + 0.868\,j) \\ ans.6 = (c = -3.969\,i + 6.946\,j) \\ ans.7 = (d = 3.473\,i - 6.078\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <4\,,\,-9>) \\ ans.3 = (AB = 4\,i - 9\,j) \\ ans.4 = (|AB| = (\sqrt{97}\,,\,9.849)) \\ ans.5 = (u = 0.406\,i - 0.914\,j) \\ ans.6 = (c = 2.437\,i - 5.483\,j) \\ ans.7 = (d = -2.843\,i + 6.397\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <-4\,,\,4\,,\,-9>) \\ ans.2 = (AB = -4\,i + 4\,j - 9\,k) \\ ans.3 = (|AB| = (\sqrt{113}\,,\,10.630)) \\ ans.4 = (u = -0.376\,i + 0.376\,j - 0.847\,k) \\ ans.5 = (c = -3.010\,i + 3.010\,j - 6.773\,k) \\ ans.6 = (d = 2.258\,i - 2.258\,j + 5.080\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <-7\,,\,-4\,,\,4>) \\ ans.2 = (AB = -7\,i - 4\,j + 4\,k) \\ ans.3 = (|AB| = (9\,,\,9.000)) \\ ans.4 = (u = -0.778\,i - 0.444\,j + 0.444\,k) \\ ans.5 = (c = -5.444\,i - 3.111\,j + 3.111\,k) \\ ans.6 = (d = 7.000\,i + 4.000\,j - 4.000\,k) \end{bmatrix}$$

$$Ans5 = <-51\,,\,-13>, \quad , Ans6 = <27\,,\,-56>, \quad , Ans7 = <-15\,,\,-3\,,\,-9>, \quad , Ans8 = <23\,,\,27\,,\,34>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [\sqrt{61}\,,\,7.810]] \\ ans.2 = \begin{bmatrix} b = <24\,,\,-20> \\ |b| = [4\sqrt{61}\,,\,31.241] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <-36\,,\,30> \\ |c| = [6\sqrt{61}\,,\,46.861] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <5\,,\,17> \\ |a| = [\sqrt{149}\,,\,12.207] \\ |b| = [5\sqrt{5}\,,\,11.180] \\ |a + b| = [\sqrt{314}\,,\,17.720] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <15\,,\,-3> \\ |a| = [\sqrt{149}\,,\,12.207] \\ |b| = [5\sqrt{5}\,,\,11.180] \\ |a - b| = [3\sqrt{26}\,,\,15.297] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <-19\,,\,17\,,\,17> \\ |a| = [2\sqrt{77}\,,\,17.550] \\ |b| = [\sqrt{187}\,,\,13.675] \\ |a + b| = [\sqrt{939}\,,\,30.643] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <-1\,,\,7\,,\,-1> \\ |a| = [2\sqrt{77}\,,\,17.550] \\ |b| = [\sqrt{187}\,,\,13.675] \\ |a - b| = [\sqrt{51}\,,\,7.141] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{74}\,,\,8.602]) \\ ans.3 = (\theta = 35.538\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{145}\,,\,12.042]) \\ ans.3 = (\theta = 131.634\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.14703

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <-8, 9>) \\ ans.3 = (AB = -8\,i + 9\,j) \\ ans.4 = (|AB| = (\sqrt{145}, 12.042)) \\ ans.5 = (u = -0.664\,i + 0.747\,j) \\ ans.6 = (c = -5.315\,i + 5.979\,j) \\ ans.7 = (d = 4.651\,i - 5.232\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <13, 6>) \\ ans.3 = (AB = 13\,i + 6\,j) \\ ans.4 = (|AB| = (\sqrt{205}, 14.318)) \\ ans.5 = (u = 0.908\,i + 0.419\,j) \\ ans.6 = (c = 7.264\,i + 3.352\,j) \\ ans.7 = (d = -4.540\,i - 2.095\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <6, -8, 8>) \\ ans.2 = (AB = 6\,i - 8\,j + 8\,k) \\ ans.3 = (|AB| = (2\sqrt{41}, 12.806)) \\ ans.4 = (u = 0.469\,i - 0.625\,j + 0.625\,k) \\ ans.5 = (c = 2.343\,i - 3.123\,j + 3.123\,k) \\ ans.6 = (d = -2.811\,i + 3.748\,j - 3.748\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <-16, -10, 17>) \\ ans.2 = (AB = -16\,i - 10\,j + 17\,k) \\ ans.3 = (|AB| = (\sqrt{645}, 25.397)) \\ ans.4 = (u = -0.630\,i - 0.394\,j + 0.669\,k) \\ ans.5 = (c = -4.410\,i - 2.756\,j + 4.686\,k) \\ ans.6 = (d = 3.150\,i + 1.969\,j - 3.347\,k) \end{bmatrix}$$

$$Ans5 = <-40, 7>, \quad , Ans6 = <18, -26>, \quad , Ans7 = <-25, -4, -8>, \quad , Ans8 = <6, -3, -24>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [10, 10.000]] \\ ans.2 = \begin{bmatrix} b = <40, 30> \\ |b| = [50, 50.000] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <-24, -18> \\ |c| = [30, 30.000] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <14, 1> \\ |a| = [\sqrt{61}, 7.810] \\ |b| = [\sqrt{106}, 10.296] \\ |a + b| = [\sqrt{197}, 14.036] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <-4, 11> \\ |a| = [\sqrt{61}, 7.810] \\ |b| = [\sqrt{106}, 10.296] \\ |a - b| = [\sqrt{137}, 11.705] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <8, -14, 6> \\ |a| = [\sqrt{230}, 15.166] \\ |b| = [\sqrt{282}, 16.793] \\ |a + b| = [2\sqrt{74}, 17.205] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <-18, 2, 20> \\ |a| = [\sqrt{230}, 15.166] \\ |b| = [\sqrt{282}, 16.793] \\ |a - b| = [2\sqrt{182}, 26.981] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{113}, 10.630]) \\ ans.3 = (\theta = 48.814\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{89}, 9.434]) \\ ans.3 = (\theta = 237.995\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.14714

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <-6\,,\,-5>) \\ ans.3 = (AB = -6\,i - 5\,j) \\ ans.4 = (|AB| = (\sqrt{61}\,,\,7.810)) \\ ans.5 = (u = -0.768\,i - 0.640\,j) \\ ans.6 = (c = -5.378\,i - 4.481\,j) \\ ans.7 = (d = 6.914\,i + 5.762\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <-8\,,\,-13>) \\ ans.3 = (AB = -8\,i - 13\,j) \\ ans.4 = (|AB| = (\sqrt{233}\,,\,15.264)) \\ ans.5 = (u = -0.524\,i - 0.852\,j) \\ ans.6 = (c = -2.620\,i - 4.258\,j) \\ ans.7 = (d = 4.193\,i + 6.813\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <5\,,\,3\,,\,-3>) \\ ans.2 = (AB = 5\,i + 3\,j - 3\,k) \\ ans.3 = (|AB| = (\sqrt{43}\,,\,6.557)) \\ ans.4 = (u = 0.762\,i + 0.457\,j - 0.457\,k) \\ ans.5 = (c = 3.812\,i + 2.287\,j - 2.287\,k) \\ ans.6 = (d = -6.100\,i - 3.660\,j + 3.660\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <5\,,\,18\,,\,-9>) \\ ans.2 = (AB = 5\,i + 18\,j - 9\,k) \\ ans.3 = (|AB| = (\sqrt{430}\,,\,20.736)) \\ ans.4 = (u = 0.241\,i + 0.868\,j - 0.434\,k) \\ ans.5 = (c = 1.206\,i + 4.340\,j - 2.170\,k) \\ ans.6 = (d = -2.170\,i - 7.812\,j + 3.906\,k) \end{bmatrix}$$

$$Ans5 = <30\,,\,27>, \quad , Ans6 = <-8\,,\,14>, \quad , Ans7 = <-25\,,\,37\,,\,7>, \quad , Ans8 = <-1\,,\,12\,,\,-3>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [3\sqrt{13}\,,\,10.817]] \\ ans.2 = \begin{bmatrix} b = <42\,,\,-63> \\ |b| = [21\sqrt{13}\,,\,75.717] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <-36\,,\,54> \\ |c| = [18\sqrt{13}\,,\,64.900] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <6\,,\,14> \\ |a| = [\sqrt{185}\,,\,13.601] \\ |b| = [\sqrt{61}\,,\,7.810] \\ |a + b| = [2\sqrt{58}\,,\,15.232] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <16\,,\,2> \\ |a| = [\sqrt{185}\,,\,13.601] \\ |b| = [\sqrt{61}\,,\,7.810] \\ |a - b| = [2\sqrt{65}\,,\,16.125] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <6\,,\,-17\,,\,4> \\ |a| = [\sqrt{238}\,,\,15.427] \\ |b| = [3\sqrt{19}\,,\,13.077] \\ |a + b| = [\sqrt{341}\,,\,18.466] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <16\,,\,5\,,\,14> \\ |a| = [\sqrt{238}\,,\,15.427] \\ |b| = [3\sqrt{19}\,,\,13.077] \\ |a - b| = [3\sqrt{53}\,,\,21.840] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{130}\,,\,11.402]) \\ ans.3 = (\theta = 37.875\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{113}\,,\,10.630]) \\ ans.3 = (\theta = 228.814\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.14746

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <7, -4>) \\ ans.3 = (AB = 7\,i - 4\,j) \\ ans.4 = (|AB| = (\sqrt{65}, 8.062)) \\ ans.5 = (u = 0.868\,i - 0.496\,j) \\ ans.6 = (c = 5.209\,i - 2.977\,j) \\ ans.7 = (d = -4.341\,i + 2.481\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <3, -15>) \\ ans.3 = (AB = 3\,i - 15\,j) \\ ans.4 = (|AB| = (3\sqrt{26}, 15.297)) \\ ans.5 = (u = 0.196\,i - 0.981\,j) \\ ans.6 = (c = 1.177\,i - 5.883\,j) \\ ans.7 = (d = -1.765\,i + 8.825\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <-5, 5, 3>) \\ ans.2 = (AB = -5\,i + 5\,j + 3\,k) \\ ans.3 = (|AB| = (\sqrt{59}, 7.681)) \\ ans.4 = (u = -0.651\,i + 0.651\,j + 0.391\,k) \\ ans.5 = (c = -3.255\,i + 3.255\,j + 1.953\,k) \\ ans.6 = (d = 5.859\,i - 5.859\,j - 3.515\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <4, -9, 4>) \\ ans.2 = (AB = 4\,i - 9\,j + 4\,k) \\ ans.3 = (|AB| = (\sqrt{113}, 10.630)) \\ ans.4 = (u = 0.376\,i - 0.847\,j + 0.376\,k) \\ ans.5 = (c = 3.010\,i - 6.773\,j + 3.010\,k) \\ ans.6 = (d = -3.387\,i + 7.620\,j - 3.387\,k) \end{bmatrix}$$

$$Ans5 = <51, -66>, \quad , Ans6 = <-7, -6>, \quad , Ans7 = <1, 0, 7>, \quad , Ans8 = <58, 26, -9>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [\sqrt{130}, 11.402]] \\ ans.2 = \begin{bmatrix} b = <27, 21> \\ |b| = [3\sqrt{130}, 34.205] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <-63, -49> \\ |c| = [7\sqrt{130}, 79.812] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <8, 18> \\ |a| = [\sqrt{89}, 9.434] \\ |b| = [\sqrt{269}, 16.401] \\ |a + b| = [2\sqrt{97}, 19.698] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <-18, -2> \\ |a| = [\sqrt{89}, 9.434] \\ |b| = [\sqrt{269}, 16.401] \\ |a - b| = [2\sqrt{82}, 18.111] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <1, -16, 3> \\ |a| = [\sqrt{97}, 9.849] \\ |b| = [\sqrt{251}, 15.843] \\ |a + b| = [\sqrt{266}, 16.310] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <-13, 6, -15> \\ |a| = [\sqrt{97}, 9.849] \\ |b| = [\sqrt{251}, 15.843] \\ |a - b| = [\sqrt{430}, 20.736] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{74}, 8.602]) \\ ans.3 = (\theta = 54.462\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{74}, 8.602]) \\ ans.3 = (\theta = 144.462\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.15000

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <8, 4>) \\ ans.3 = (AB = 8\,i + 4\,j) \\ ans.4 = (|AB| = (4\sqrt{5}, 8.944)) \\ ans.5 = (u = 0.894\,i + 0.447\,j) \\ ans.6 = (c = 4.472\,i + 2.236\,j) \\ ans.7 = (d = -7.155\,i - 3.578\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <10, -3>) \\ ans.3 = (AB = 10\,i - 3\,j) \\ ans.4 = (|AB| = (\sqrt{109}, 10.440)) \\ ans.5 = (u = 0.958\,i - 0.287\,j) \\ ans.6 = (c = 6.705\,i - 2.011\,j) \\ ans.7 = (d = -8.620\,i + 2.586\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <3, -4, -5>) \\ ans.2 = (AB = 3\,i - 4\,j - 5\,k) \\ ans.3 = (|AB| = (5\sqrt{2}, 7.071)) \\ ans.4 = (u = 0.424\,i - 0.566\,j - 0.707\,k) \\ ans.5 = (c = 3.394\,i - 4.525\,j - 5.657\,k) \\ ans.6 = (d = -2.546\,i + 3.394\,j + 4.243\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <-11, -16, 17>) \\ ans.2 = (AB = -11\,i - 16\,j + 17\,k) \\ ans.3 = (|AB| = (3\sqrt{74}, 25.807)) \\ ans.4 = (u = -0.426\,i - 0.620\,j + 0.659\,k) \\ ans.5 = (c = -2.131\,i - 3.100\,j + 3.294\,k) \\ ans.6 = (d = 2.984\,i + 4.340\,j - 4.611\,k) \end{bmatrix}$$

$$Ans5 = <-16, -42>, \quad , Ans6 = <10, 13>, \quad , Ans7 = <42, -29, 35>, \quad , Ans8 = <13, -3, -55>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [\sqrt{74}, 8.602]] \\ ans.2 = \begin{bmatrix} b = <20, -28> \\ |b| = [4\sqrt{74}, 34.409] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <-30, 42> \\ |c| = [6\sqrt{74}, 51.614] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <6, 13> \\ |a| = [\sqrt{157}, 12.530] \\ |b| = [\sqrt{74}, 8.602] \\ |a + b| = [\sqrt{205}, 14.318] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <16, -1> \\ |a| = [\sqrt{157}, 12.530] \\ |b| = [\sqrt{74}, 8.602] \\ |a - b| = [\sqrt{257}, 16.031] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <-18, 5, -1> \\ |a| = [\sqrt{206}, 14.353] \\ |b| = [\sqrt{258}, 16.062] \\ |a + b| = [5\sqrt{14}, 18.708] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <8, 15, -17> \\ |a| = [\sqrt{206}, 14.353] \\ |b| = [\sqrt{258}, 16.062] \\ |a - b| = [17\sqrt{2}, 24.042] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{74}, 8.602]) \\ ans.3 = (\theta = 35.538\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{61}, 7.810]) \\ ans.3 = (\theta = 309.806\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.15012

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <-6, 5>) \\ ans.3 = (AB = -6\,i + 5\,j) \\ ans.4 = (|AB| = (\sqrt{61}, 7.810)) \\ ans.5 = (u = -0.768\,i + 0.640\,j) \\ ans.6 = (c = -3.841\,i + 3.201\,j) \\ ans.7 = (d = 4.609\,i - 3.841\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <-4, 10>) \\ ans.3 = (AB = -4\,i + 10\,j) \\ ans.4 = (|AB| = (2\sqrt{29}, 10.770)) \\ ans.5 = (u = -0.371\,i + 0.928\,j) \\ ans.6 = (c = -2.228\,i + 5.571\,j) \\ ans.7 = (d = 2.600\,i - 6.499\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <-5, -5, -9>) \\ ans.2 = (AB = -5\,i - 5\,j - 9\,k) \\ ans.3 = (|AB| = (\sqrt{131}, 11.446)) \\ ans.4 = (u = -0.437\,i - 0.437\,j - 0.786\,k) \\ ans.5 = (c = -2.621\,i - 2.621\,j - 4.718\,k) \\ ans.6 = (d = 3.495\,i + 3.495\,j + 6.291\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <8, -4, -6>) \\ ans.2 = (AB = 8\,i - 4\,j - 6\,k) \\ ans.3 = (|AB| = (2\sqrt{29}, 10.770)) \\ ans.4 = (u = 0.743\,i - 0.371\,j - 0.557\,k) \\ ans.5 = (c = 5.199\,i - 2.600\,j - 3.900\,k) \\ ans.6 = (d = -5.942\,i + 2.971\,j + 4.457\,k) \end{bmatrix}$$

$$Ans5 = <21, -14>, \quad , Ans6 = <-4, 5>, \quad , Ans7 = <-9, -12, -5>, \quad , Ans8 = <-16, -15, 35>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [\sqrt{113}, 10.630]] \\ ans.2 = \begin{bmatrix} b = <-56, -49> \\ |b| = [7\sqrt{113}, 74.411] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <24, 21> \\ |c| = [3\sqrt{113}, 31.890] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <-3, 18> \\ |a| = [\sqrt{170}, 13.038] \\ |b| = [\sqrt{185}, 13.601] \\ |a + b| = [3\sqrt{37}, 18.248] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <-19, -4> \\ |a| = [\sqrt{170}, 13.038] \\ |b| = [\sqrt{185}, 13.601] \\ |a - b| = [\sqrt{377}, 19.416] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <17, -3, 4> \\ |a| = [\sqrt{86}, 9.274] \\ |b| = [\sqrt{266}, 16.310] \\ |a + b| = [\sqrt{314}, 17.720] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <-5, 13, -14> \\ |a| = [\sqrt{86}, 9.274] \\ |b| = [\sqrt{266}, 16.310] \\ |a - b| = [\sqrt{390}, 19.748] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{106}, 10.296]) \\ ans.3 = (\theta = 29.055\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{85}, 9.220]) \\ ans.3 = (\theta = 319.399\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.15024

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <8, 4>) \\ ans.3 = (AB = 8\,i + 4\,j) \\ ans.4 = (|AB| = (4\sqrt{5}, 8.944)) \\ ans.5 = (u = 0.894\,i + 0.447\,j) \\ ans.6 = (c = 8.050\,i + 4.025\,j) \\ ans.7 = (d = -4.472\,i - 2.236\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <5, -9>) \\ ans.3 = (AB = 5\,i - 9\,j) \\ ans.4 = (|AB| = (\sqrt{106}, 10.296)) \\ ans.5 = (u = 0.486\,i - 0.874\,j) \\ ans.6 = (c = 4.371\,i - 7.867\,j) \\ ans.7 = (d = -3.400\,i + 6.119\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <-3, -7, -10>) \\ ans.2 = (AB = -3\,i - 7\,j - 10\,k) \\ ans.3 = (|AB| = (\sqrt{158}, 12.570)) \\ ans.4 = (u = -0.239\,i - 0.557\,j - 0.796\,k) \\ ans.5 = (c = -1.432\,i - 3.341\,j - 4.773\,k) \\ ans.6 = (d = 1.671\,i + 3.898\,j + 5.569\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <-8, 4, -3>) \\ ans.2 = (AB = -8\,i + 4\,j - 3\,k) \\ ans.3 = (|AB| = (\sqrt{89}, 9.434)) \\ ans.4 = (u = -0.848\,i + 0.424\,j - 0.318\,k) \\ ans.5 = (c = -7.632\,i + 3.816\,j - 2.862\,k) \\ ans.6 = (d = 4.240\,i - 2.120\,j + 1.590\,k) \end{bmatrix}$$

$$Ans5 = <9, 4>, \quad , Ans6 = <-15, 19>, \quad , Ans7 = <9, 13, -21>, \quad , Ans8 = <16, 37, 16>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [\sqrt{113}, 10.630]] \\ ans.2 = \begin{bmatrix} b = <-48, -42> \\ |b| = [6\sqrt{113}, 63.781] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <40, 35> \\ |c| = [5\sqrt{113}, 53.151] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <16, -1> \\ |a| = [\sqrt{149}, 12.207] \\ |b| = [10, 10.000] \\ |a + b| = [\sqrt{257}, 16.031] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <4, 15> \\ |a| = [\sqrt{149}, 12.207] \\ |b| = [10, 10.000] \\ |a - b| = [\sqrt{241}, 15.524] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <-2, -20, -3> \\ |a| = [3\sqrt{35}, 17.748] \\ |b| = [\sqrt{194}, 13.928] \\ |a + b| = [\sqrt{413}, 20.322] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <-20, -6, 13> \\ |a| = [3\sqrt{35}, 17.748] \\ |b| = [\sqrt{194}, 13.928] \\ |a - b| = [11\sqrt{5}, 24.597] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{145}, 12.042]) \\ ans.3 = (\theta = 48.366\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{113}, 10.630]) \\ ans.3 = (\theta = 228.814\ degrees) \end{bmatrix}$$

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Vector01 Answers for No.15032

$$Ans1 = \begin{bmatrix} ans.2 = (AB = <3, -3>) \\ ans.3 = (AB = 3\,i - 3\,j) \\ ans.4 = (|AB| = (3\sqrt{2}, 4.243)) \\ ans.5 = (u = 0.707\,i - 0.707\,j) \\ ans.6 = (c = 6.364\,i - 6.364\,j) \\ ans.7 = (d = -3.536\,i + 3.536\,j) \end{bmatrix}, \quad , Ans2 = \begin{bmatrix} ans.2 = (AB = <6, 8>) \\ ans.3 = (AB = 6\,i + 8\,j) \\ ans.4 = (|AB| = (10, 10.000)) \\ ans.5 = (u = 0.600\,i + 0.800\,j) \\ ans.6 = (c = 3.000\,i + 4.000\,j) \\ ans.7 = (d = -3.600\,i - 4.800\,j) \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} ans.1 = (AB = <4, 3, 4>) \\ ans.2 = (AB = 4\,i + 3\,j + 4\,k) \\ ans.3 = (|AB| = (\sqrt{41}, 6.403)) \\ ans.4 = (u = 0.625\,i + 0.469\,j + 0.625\,k) \\ ans.5 = (c = 3.748\,i + 2.811\,j + 3.748\,k) \\ ans.6 = (d = -3.123\,i - 2.343\,j - 3.123\,k) \end{bmatrix}, \quad , Ans4 = \begin{bmatrix} ans.1 = (AB = <-3, -5, 14>) \\ ans.2 = (AB = -3\,i - 5\,j + 14\,k) \\ ans.3 = (|AB| = (\sqrt{230}, 15.166)) \\ ans.4 = (u = -0.198\,i - 0.330\,j + 0.923\,k) \\ ans.5 = (c = -1.780\,i - 2.967\,j + 8.308\,k) \\ ans.6 = (d = 0.989\,i + 1.648\,j - 4.616\,k) \end{bmatrix}$$

$$Ans5 = <-4, -25>, \quad , Ans6 = <-7, -10>, \quad , Ans7 = <14, 40, 33>, \quad , Ans8 = <17, -12, -19>$$

$$Ans9 = \begin{bmatrix} ans.1 = [|a| = [10, 10.000]] \\ ans.2 = \begin{bmatrix} b = <24, 32> \\ |b| = [40, 40.000] \end{bmatrix} \\ ans.4 = \begin{bmatrix} c = <-42, -56> \\ |c| = [70, 70.000] \end{bmatrix} \end{bmatrix}, \quad , Ans10 = \begin{bmatrix} a + b = <14, -3> \\ |a| = [\sqrt{181}, 13.454] \\ |b| = [\sqrt{74}, 8.602] \\ |a + b| = [\sqrt{205}, 14.318] \end{bmatrix}, \quad , Ans11 = \begin{bmatrix} a - b = <4, -17> \\ |a| = [\sqrt{181}, 13.454] \\ |b| = [\sqrt{74}, 8.602] \\ |a - b| = [\sqrt{305}, 17.464] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ MUT \end{bmatrix}$$

$$Ans12 = \begin{bmatrix} a + b = <-20, -1, 20> \\ |a| = [\sqrt{301}, 17.349] \\ |b| = [\sqrt{170}, 13.038] \\ |a + b| = [3\sqrt{89}, 28.302] \end{bmatrix}, \quad , Ans13 = \begin{bmatrix} a - b = <-2, -11, 4> \\ |a| = [\sqrt{301}, 17.349] \\ |b| = [\sqrt{170}, 13.038] \\ |a - b| = [\sqrt{141}, 11.874] \end{bmatrix}$$

$$Ans14 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{106}, 10.296]) \\ ans.3 = (\theta = 60.945\ degrees) \end{bmatrix}, \quad , Ans15 = \begin{bmatrix} ans.2 = (|a| = [\sqrt{145}, 12.042]) \\ ans.3 = (\theta = 228.366\ degrees) \end{bmatrix}$$

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