

SADLER UNIT 3 MATHEMATICS SPECIALIST

WORKED SOLUTIONS

Chapter 4: Vector equation of a line in the x - y plane

Exercise 4A

Question 1

At t hours after 8 a.m.:

$$\mathbf{r}_A(t) = (3\mathbf{i} + 4\mathbf{j}) + (10\mathbf{i} - \mathbf{j})t = (5 + 10t)\mathbf{i} + (4 - t)\mathbf{j}$$

$$\mathbf{r}_B(t) = (6\mathbf{i} - 8\mathbf{j}) + (2\mathbf{i} + 8\mathbf{j})t = (6 + 2t)\mathbf{i} + (8t - 8)\mathbf{j}$$

$$\mathbf{r}_C(t) = (2\mathbf{i} + 3\mathbf{j}) + (-4\mathbf{i} + 3\mathbf{j})t = (2 - 4t)\mathbf{i} + (3 + 3t)\mathbf{j}$$

Body D has position vector $(9 + 10)\mathbf{i} + (-10 + 6)\mathbf{j}$ at 8 a.m.

$$\mathbf{r}_D(t) = (19\mathbf{i} - 4\mathbf{j}) + (10\mathbf{i} + 6\mathbf{j})t = (19 + 10t)\mathbf{i} + (6t - 4)\mathbf{j}$$

Body E has position vector $[16 - (-4)]\mathbf{i} + (7 - 3)\mathbf{j}$ at 8 a.m.

$$\mathbf{r}_E(t) = (20\mathbf{i} + 4\mathbf{j}) + (-4\mathbf{i} + 3\mathbf{j})t = (20 - 4t)\mathbf{i} + (4 + 3t)\mathbf{j}, \quad t \geq 1.$$

Body F has position vector $[2 - (12 + 2)]\mathbf{i} + [3 - (-8 + 2)]\mathbf{j}$ at 8 a.m.

$$\mathbf{r}_F(t) = (-4\mathbf{i} + 7\mathbf{j}) + (12\mathbf{i} - 8\mathbf{j})t = (12t - 4)\mathbf{i} + (7 - 8t)\mathbf{j}, \quad t \geq 0.5.$$

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