<22103>: <BMS>: <Basic Mathematics>: <Straight Line >: <UO 3.4>: <Assessments>: <Formative>

<Mr. V.B. Shinde>

Assessment Type: Formative Assessments: Embedded questions in video

Set 1: Question No 1	Set 1: Question No 2	Set 1: Question No 3
State the condition for parallel lines, whose slopes are m_1 and m_2.	Find the value of m, If the two lines $3mx - 2my - 10 = 0$ and $(5m + 2)x - 4my - 28 = 0$ are parallel.	Find the distance between the parallel lines $3x + 2y + 6 = 0$, $9x + 6y - 7 = 0$
Recall/ Remembering	Understanding	Application
a) $m_1 = m_2$	a) m=3	a) $\frac{9}{2\sqrt{13}}$ units
b $m_1 + m_2 = -1$	b) m=2	b) $\frac{31}{3\sqrt{13}}$ units
c) $m_1 \cdot m_2 = -1$	c) m=4	c) $\frac{9}{\sqrt{10}}$ units
d) $m_2 = -m_1$	d) m=7	d) $\frac{25}{3\sqrt{13}}$ units
Ans: <a>	Ans: <b>	Ans: <d>

Set 2: Question No 1	Set 2: Question No 2	Set 2: Question No 3
Which of the following types the straight line represented by $2x + 3y - 7 = 0$, $2x + 3y - 5 = 0$.	Find the distance between the parallel lines $2x - 3y + 7 = 0$, $2x - 3y - 6 = 0$	Find the distance between the parallel lines $y = 2x + 4$, $3y = 6x - 5$
Recall/ Remembering	Understanding	Application
a) Parallel to each other	a) $\sqrt{13}$	a) 1
b) Perpendicular to each other	b) $\sqrt{14}$	b) $\frac{17}{3\sqrt{5}}$
c) Inclined at 45° to each other	c) $\sqrt{15}$	c) $\frac{17\sqrt{5}}{15}$
d) Coincident pair of straight lines	d)) $\sqrt{16}$	d) $\frac{17}{\sqrt{3}}$
Ans: <a >	Ans: <a>	Ans: <b>