Lines & Planes · Grade 12

Name _____ Date _____ Score _____ / 5

01

Line through P(-6, -6), direction $\vec{m} = \langle -1, -2 \rangle$. Write its parametric equations =

_____

02 Line through P(6, -1), direction $\vec{m} = \langle -3, 0 \rangle$. Write its vector equation = _____

03 A line passes through A(-5, 3) and B(3, -4). Write its vector equation = _____

04 Line through P(0, 0), direction $\vec{m} = \langle 0, 6 \rangle$. Write its parametric equations =

_____

05 Line through P(-5, 2), direction $\vec{m} = \langle 6, 1 \rangle$. Write its parametric equations =

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Lines & Planes · Grade 12 (Answer Key)

01

Line through P(-6, -6), direction $\vec{m} = \langle -1, -2 \rangle$. Write its parametric equations =

x = -6 + -1t, y = -6 + -2t

02 Line through P(6, -1), direction $\vec{m} = \langle -3, 0 \rangle$. Write its vector equation =

$\vec{r} = \langle 6, -1 \rangle + t\langle -3, 0 \rangle$

03 A line passes through A(-5, 3) and B(3, -4). Write its vector equation =

$\vec{r} = \langle -5, 3 \rangle + t\langle 8, -7 \rangle$

04 Line through P(0, 0), direction $\vec{m} = \langle 0, 6 \rangle$. Write its parametric equations =

x = 0 + 0t, y = 0 + 6t

05 Line through P(-5, 2), direction $\vec{m} = \langle 6, 1 \rangle$. Write its parametric equations =

x = -5 + 6t, y = 2 + 1t