

Date : 267  $|V| = \sqrt{-4^2 + (-3)^2}$   $= \sqrt{25}$ D = ( 4) cio Find the distance between Prybone and Mario. DM = OM - OD  $= \sqrt{-6^2 + (-6)^2} = \sqrt{36 + 36}$ 1 DM =  $\sqrt{72}$  = 8.485281374 × 8.49 m Find the angle between Dry bone and Mario. cos A = DM . V 10M/1V/ (-6 x (-4)) + (-6 x (-3)) J72 V25 COS-1 (42) 8.130102354 × 8.1 Mario caroot been seen, Due to poor viewing distance of 8m.

city Find the distance between Drybone and Luigi
(11) tind the distance
DL = OL - OD
$= \begin{pmatrix} 0 \\ 0 \end{pmatrix} - \begin{pmatrix} 3 \\ 4 \end{pmatrix}$
( ) '
$=\begin{pmatrix} -3\\ -4 \end{pmatrix}$
$ OL  = \sqrt{-3^2 + (-4)^2} = \sqrt{25}$
= 5 m
Find the angle between Drybone and Luigi.
$\cos \theta = DL \cdot \vec{v}$
IDLI IVI
$(-3 \times (-4)) + (-4 \times (-3))$
1 25 ( 2)
12 † 12 24
$= \frac{12 + 12}{\sqrt{25 \sqrt{25}}} = \frac{24}{\sqrt{25 \sqrt{25}}}$
$\cos^{-1}\left(\frac{24}{24}\right) = 16.26020471$
J25 J25 / = 18.20 20 1/1
≈ 16.3°
Luigi can been seen.
Tini .

ciii) Find the distance between Drytone  DP = OP - OD	
$= \begin{pmatrix} -4 \\ 4 \end{pmatrix} - \begin{pmatrix} 3 \\ 4 \end{pmatrix}$ $= \begin{pmatrix} -7 \\ 0 \end{pmatrix}$	
PPI = J-72 +02 = Ja = 7 m Find the angle between Drybone	
$\cos \theta = pP \cdot \vec{v}$ $= \frac{1pP \cdot  \vec{v} }{1pP \cdot  \vec{v} }$ $= \frac{(-7 \times (-4))}{549 \cdot 525}$	
0	747 125
J41V25 /	.86989765 ,9°
Peach can been seen	
	Z. W

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	d the	d'istanze	Letwein	bry Lone and	
	DT	= 0T	- 00		
		= (-3	)-(	3 4 )	
		= ( -3	7		
	1071	$= \sqrt{-3^2}$	773106	= \[ \int 58 \\ \approx 7.62 m \]	
Find the	angle	between	Drybone	and Toad	
	C 2 0		111		
		= ( -	3 4 (-4)	) + (-7 + (-	3))
			J58 J25		-0
		= +2 +	21 =	33	
	cos-1	( 33 · 558/25	) =	29,931511 29,9°	84
	Toold co	an been	seen		
					Test