

**10-mavzu. Tekislikda koordinatalar sistemasi.
VIZUAL VA TARQATMA MATERIALLAR**

Topshiriqlar	To'g'ri javob	Muqobil javob	Muqobil javob	Muqobil javob
$A(4;3)$ va $B(7;7)$ nuqtalar orasidagi masofani toping	$* AB = 5$	$ AB = 1$	$ AB = 2$	$ AB = 2\sqrt{5}$
$A(1;1)$ va $B(2;1)$ nuqtalar orasidagi masofani toping.	$* AB = 1$	$ AB = 5$	$ AB = 2$	$ AB = 2\sqrt{5}$
$A(2;0)$ va $B(4;0)$ nuqtalar orasidagi masofani toping.	$* AB = 2$	$ AB = 2\sqrt{5}$	$ AB = 5$	$ AB = 1$
$(1;3)$ va $(2;4)$ nuqtalardan o'tuvchi to'g'ri chiziq tenglamasini toping.	$* x - y + 2 = 0;$	$3x - 2y = 0;$	$x - 1 = 0;$	$y + 3 = 0$
$y = k_1x + b_1$, $y = k_2x + b_2$ ikki to'g'ri chiziqning parallel bo'lishi sharti	$* k_1 = k_2$	$k_1 = -\frac{1}{k_2}$	$tg\alpha = \frac{k_1 - k_2}{1 + k_1k_2}$	$k = tg\alpha$
Uchlari $A(2,5)$, $B(1,-1)$, $C(1,7)$ nuqtalarda bo'lgan uchburchakning tomonlari uzunliklarini toping.	$* \sqrt{37}, \sqrt{5}, 8$	$4, \sqrt{11}, \sqrt{28}$	$6, 3, 7$	$\sqrt{11}, 4, \sqrt{29}$
$A(1,3)$ va $B(2,4)$ nuqtalarni $x - y - 2 = 0$ tenglama bilan aniqlangan figurada yotish yoki yotmasini aniqlang.	$* A$ va B nuqtalarning hech biri yotmaydi	A nuqta yotmaydi, B nuqta yotadi	A va B nuqtalar har ikkalasi ham yotadi	A nuqta yotadi, B nuqta yotmaydi
Berilgan ikki nuqtadan o'tuvchi to'g'ri chiziq tenglamasi qaysi javobda to'g'ri berilgan?	$\frac{x - x_1}{x_2 - x_1} = \frac{y - y_1}{y_2 - y_1}$ $* x_2 - x_1$ $y_2 - y_1$	$\frac{x}{a} + \frac{y}{b} = 1$	$x \cos \alpha + y \sin \alpha - p = 0$ $y = kx + b$	

To`g`ri chiziqning umumiy tenglamasi qaysi javobda to`g`ri berilgan?	* $Ax + By + C = 0$	$\frac{x-x_1}{x_2-x_1} = \frac{y-y_1}{y_2-y_1}$	$\frac{x}{a} + \frac{y}{b} = 1$	$y = kx + b$
(2,-3) va (4,-3) nuqtalardan o`tuvchi to`g`ri chiziq tenglamasi topilsin.	* $y + 3 = 0$	$3x - 2y = 0;$	$x - 1 = 0;$	$x - y + 2 = 0;$
(2,-3) va (4,-3) nuqtalardan o`tuvchi to`g`ri chiziqning burchak koeffisientini toping.	* -3	0	3	2
$A(-5,3), B(3,7)$ nuqtalar berilgan. AB kesmani $\lambda = \frac{3}{2}$ nisbatda bo`luvchi N nuqtaning koordinatasini toping.	* $N\left(-\frac{1}{5}; \frac{27}{5}\right)$	$N\left(-\frac{4}{3}; \frac{12}{3}\right)$	$N\left(-\frac{3}{7}; -\frac{9}{7}\right)$	$N\left(\frac{5}{3}; 4\right)$