

Приложение 7.

Вариант 1.

1. $P(0;1)$, $3x - 2y + 5 = 0$.

2. $\begin{cases} x = -t + 2, \\ y = 3t + 1, \end{cases} \quad 2x - y + 5 = 0.$

3 – 8.

$A(-3;4;-7)$, $B(-1;5;-4)$,

$C(-5;-2;0)$, $M(-12;7;-1)$.

$\alpha: 2x + y + z - 2 = 0$,

$\beta: 2x - y - 3z + 6 = 0$.

Вариант 3.

1. $P(-1;4)$, $\frac{x-3}{2} = \frac{y}{5}$.

2. $3x - 4y + 5 = 0$, $\begin{cases} x = 2t + 1, \\ y = -t + 3. \end{cases}$

3 – 8.

$A(-3;-1;1)$, $B(-9;1;-2)$,

$C(3;-5;4)$, $M(-7;0;-1)$.

Вариант 2.

1. $P(1;2)$, $\begin{cases} x = 3t + 1, \\ y = -2t. \end{cases}$

2. $x - 2y + 4 = 0$, $\begin{cases} x = 4t + 1, \\ y = 2t - 3. \end{cases}$

3 – 8.

$A(-1;2;-3)$, $B(4;-1;0)$,

$C(2;1;-2)$ $M(1;-6;-5)$.

$\alpha: x - 3y + 2z + 2 = 0$,

$\beta: x + 3y + z + 14 = 0$.

Вариант 4.

1. $P(4;1)$, $5x - 3y + 4 = 0$.

2. $3x - 4y + 7 = 0$, $\begin{cases} x = 4t + 11, \\ y = 3t - 5. \end{cases}$

3 – 8.

$A(1;-1;1)$, $B(-2;0;3)$,

$C(2;1;-1)$, $M(-2;4;2)$.

$$\alpha: x - 2y + z - 4 = 0,$$

$$\beta: 2x + 2y - z - 8 = 0.$$

Вариант 5.

$$1. P(5;0), \begin{cases} x = 3t + 1, \\ y = -t + 7. \end{cases}$$

$$2. x + 3y - 5 = 0,$$

$$2x - y + 4 = 0.$$

3 - 8.

$$A(1;2;0), B(1;-1;2),$$

$$C(0;1;-1), M(2;-1;4).$$

$$\alpha: 2x + 3y + z + 6 = 0,$$

$$\beta: x - 3y - 2z + 3 = 0.$$

Вариант 7.

$$1. P(-7;1), 2x + y - 3 = 0.$$

$$2. x + 5y - 35 = 0, \begin{cases} x = -2t + 7, \\ y = 3t + 3. \end{cases}$$

3 - 8.

$$A(1;2;-3), B(1;0;1),$$

$$C(-2;-1;6), M(3;-2;-9).$$

$$\alpha: x + y + z - 2 = 0,$$

$$\beta: x - y - 2z + 2 = 0.$$

Вариант 6.

$$1. P(-1;6), \frac{x-3}{2} = \frac{y+2}{1}.$$

$$2. \begin{cases} x = 3t - 1, \\ y = -2t + 5. \end{cases}, 3x - 2y = 0.$$

3 - 8.

$$A(1;0;2), B(1;2;-1),$$

$$C(2;-2;1), M(-5;-9;1).$$

$$\alpha: 3x + y - z - 6 = 0,$$

$$\beta: 3x - y + 2z = 0.$$

Вариант 8.

$$1. P(-3;8), \begin{cases} x = 2t + 1, \\ y = t. \end{cases}$$

$$2. 2x = 3y, \begin{cases} x = -t, \\ y = 3t + 11. \end{cases}$$

3 - 8.

$$A(3;10;-1), B(-2;3;-5),$$

$$C(-6;0;-3), M(-6;7;-10).$$

$$\alpha: x+5y+2z+11=0,$$

$$\beta: x-y-z-1=0.$$

$$\alpha: 3x+4y-2z+1=0,$$

$$\beta: 2x-4y+3z+4=0.$$

Вариант 9.

$$1. P(9;1), \frac{x-2}{11} = \frac{y+7}{2}.$$

$$2. 12x+20y-11,2=0,$$

$$\begin{cases} y = 9t + \frac{1}{2}, \\ x = -15t + 0,1. \end{cases}$$

3 – 8.

$$A(-1;2;4), B(-1;-2;-4),$$

$$C(3;0;-1), M(-2;3;5).$$

$$\alpha: 5x+y+3z+4=0,$$

$$\beta: x-y+2z+2=0.$$

Вариант 11.

$$1. P(2;11), \begin{cases} x = -3t + 1, \\ y = 2t + 8. \end{cases}$$

$$2. 3x+5y-4=0, \begin{cases} x = 10t - 1, \\ y = 6t + 5. \end{cases}$$

Вариант 10.

$$1. P(3;4), 5x-2y+4=0.$$

$$2. \begin{cases} x = 3t - 1, \\ y = -2t + 5, \end{cases} 2x - y + 15 = 0.$$

3 – 8.

$$A(0;-3;1), B(-4;1;2),$$

$$C(2;-1;5), M(-3;4;-5).$$

$$\alpha: x-y-z-2=0,$$

$$\beta: x-2y+z+4=0.$$

Вариант 12.

$$1. P(-3;5), \frac{x-12}{2} = \frac{y-1}{3}.$$

$$2. \begin{cases} x = t - 3, \\ y = t, \end{cases} 3x + y + 4 = 0.$$

3 – 8.

$A(1;3;0), B(4;-1;2),$

$C(3;0;1), M(4;3;0).$

$\alpha: 4x + y - 3z + 2 = 0,$

$\beta: 2x - y + z - 8 = 0.$

3 – 8.

$A(-2;-1;-1), B(0;3;2)$

$C(3;1;-4), M(-21;20;-16).$

$\alpha: 3x + 3y - 2z - 1 = 0,$

$\beta: 2x - 3y + z + 6 = 0.$

Вариант 13.

1. $P(1;13), 2x - 3y + 9 = 0.$

2. $x - 3y + 2 = 0, \begin{cases} x = t - 1, \\ y = -3t + 7. \end{cases}$

3 – 8.

$A(-3;-5;6), B(2;1;-4),$

$C(0;-3;-1), M(3;6;68).$

$\alpha: 6x - 7y - 4z - 2 = 0,$

$\beta: x + 7y - z - 5 = 0.$

Вариант 15.

1. $P(-1;2), \frac{x+3}{15} = \frac{y-1}{4}.$

Вариант 14.

1. $P(5;14), \begin{cases} x = 3t + 1, \\ y = 2t - 7. \end{cases}$

2. $3x + 5y - 5 = 0, \begin{cases} x = 3t + 3 \\ y = -2t - 1. \end{cases}$

3 – 8.

$A(2;-4;-3), B(5;-6;0),$

$C(-1;3;-3), M(2;-10;8).$

$\alpha: 8x - y - 3z - 1 = 0,$

$\beta: x + y + z + 10 = 0.$

Вариант 16.

1. $P(-4;2), \frac{x+1}{4} = \frac{y-1}{-3}.$

$$2. \begin{cases} x = 5t + 1, \\ y = 2t - 4, \end{cases}$$

$$5x + 2y - 26 = 0.$$

3 – 8.

$$A(1; -1; 2), B(2; 1; 2),$$

$$C(1; 1; 4), M(-3; 2; 7).$$

$$\alpha: 6x - 5y - 4z + 8 = 0,$$

$$\beta: 6x + 5y + 3z + 4 = 0.$$

$$2. \frac{y-1}{-2} = \frac{x+1}{3}, \begin{cases} x = 6t + 0,25, \\ y = -4t + \frac{1}{6}. \end{cases}$$

3 – 8.

$$A(1; 3; 6), B(2; 2; 1),$$

$$C(-1; 0; 1), M(5; -4; 5).$$

$$\alpha: x + 5y - z - 5 = 0,$$

$$\beta: 2x - 5y + 2z + 5 = 0.$$

Вариант 17.

$$1. P(-5; 1), \begin{cases} x = 17t + 10, \\ y = -2t + 3. \end{cases}$$

$$2. 3x - y + 7 = 0, \begin{cases} x = 2t - 8, \\ y = 5t - 14. \end{cases}$$

3 – 8.

$$A(-4; 2; 6), B(2; -3; 0),$$

$$C(-10; 5; 8), M(-12; 1; 8).$$

$$\alpha: 2x - 3y + z + 6 = 0,$$

$$\beta: -x - 3y - 2z + 3 = 0.$$

Вариант 18.

$$1. P(18; 0), \frac{x-1}{4} = \frac{y+2}{7}.$$

$$2. x - 4y + 24 = 0, \begin{cases} x = t + 1, \\ y = -4t + 2. \end{cases}$$

3 – 8.

$$A(7; 2; 4), B(7; -1; -2),$$

$$C(-5; -2; -1), M(10; 1; 8).$$

$$\alpha: 5x + y + 2z + 4 = 0,$$

$$\beta: x - y - 3z + 2 = 0.$$

Вариант 19.

1. $P(-1;4), 3x+11y-1=0.$

2. $5x-7y-39=0, \begin{cases} x=5t-5, \\ y=-7t. \end{cases}$

3 – 8.

$A(2;1;4), B(3;5;-2),$

$C(-7;-3;2), M(-3;1;8).$

$\alpha: 4x+y+z+2=0,$

$\beta: 2x-y-3z-8=0.$

Вариант 21.

1. $P(21;-4), \frac{x}{3} = \frac{y-7}{8}.$

2. $\begin{cases} x=3t-5, \\ y=-2t+1, \end{cases} x+y+5=0.$

3 – 8.

$A(0;-1;-1), B(-2;3;5),$

$C(1;-5;-9), M(-4;-13;6).$

$\alpha: x+y-2z-2=0,$

$\beta: x-y+z+2=0.$

Вариант 20.

1. $P(7;-5), \begin{cases} x=3t+5, \\ y=2t-1. \end{cases}$

2. $2x+4y+7=0,$

$\frac{x-1}{2} = y+1.$

3 – 8.

$A(-1;-5;2), B(-6;0;-3),$

$C(3;6;-3), M(10;-8;-7).$

$\alpha: 2x+y-3z-2=0,$

$\beta: 2x-y+z+6=0.$

Вариант 22.

1. $P(-4;8), 5x+22y+11=0.$

2. $\begin{cases} x=2t-5, \\ y=3t+1, \end{cases} 3x-2y+17=0.$

3 – 8.

$A(5;2;0), B(2;5;0),$

$C(1;2;4), M(-3;-6;-8).$

$\alpha: x+5y-z+11=0,$

$\beta: x-y+2z-1=0.$

Вариант 23.

$$1. P(-5;4), \begin{cases} x = 23t + 1, \\ y = -t + 7. \end{cases}$$

$$2. 3x - 11y + 8 = 0, \begin{cases} x = 3t + 7, \\ y = t + 3. \end{cases}$$

3 – 8.

$$A(14;4;5), B(-5;-3;2),$$

$$C(-2;-6;-3), M(-1;-8;7).$$

$$\alpha: x + 5y + 2z - 5 = 0,$$

$$\beta: 2x - 5y - z + 5 = 0.$$

Вариант 25.

$$1. P(-4;11), 5x - y + 25 = 0.$$

$$2. 3x - 2y + 7 = 0, \begin{cases} x = t - 3, \\ y = 2t - 1,5. \end{cases}$$

3 – 8.

$$A(2;-1;-2), B(1;2;1),$$

$$C(5;0;-6), M(14;-3;7).$$

$$\alpha: x - y + z - 2 = 0,$$

$$\beta: x - 2y - z + 4 = 0.$$

Вариант 24.

$$1. P(3;-24), \frac{x-1}{1} = \frac{y+2}{-3}.$$

$$2. 5x - 3y - 27 = 0,$$

$$\begin{cases} x = 5t + 1, \\ y = -3t + 4. \end{cases}$$

3 – 8.

$$A(-2;0;-4), B(-1;7;1),$$

$$C(4;-8;-4), M(-6;5;5).$$

$$\alpha: 6x - 7y - z - 2 = 0,$$

$$\beta: x + 7y - 4z - 5 = 0.$$

Вариант 26.

$$1. P(-3;26), \begin{cases} x = 2t - 1, \\ y = -4t + 5. \end{cases}$$

$$2. 5x - 3y + 8 = 0, \begin{cases} x = 7t - 15, \\ y = 2t - 3. \end{cases}$$

3 – 8.

$$A(1;2;0), B(3;0;-3), C(5;2;6),$$

$$M(-13;-8;-16).$$

$$\alpha: x - 3y + z + 2 = 0,$$

$$\beta: x + 3y + 2z + 14 = 0.$$

Вариант 27.

1. $P(-1;4), \frac{x-1}{2} = \frac{y-1}{27}.$

2. $2x+3y+4=0,$

$$\begin{cases} x=t-3,5, \\ y=-t+0,5. \end{cases}$$

3 – 8.

$A(2;-1;2), B(1;2;-1),$

$C(3;2;1), M(-5;3;7).$

$\alpha: 2x+3y-2z+6=0,$

$\beta: x-3y+z+3=0.$

Вариант 29.

1. $P(29;0), \begin{cases} x=29t-1, \\ y=3t+5. \end{cases}$

2. $x-5y+4=0, \begin{cases} x=3t-8, \\ y=-t+4. \end{cases}$

3 – 8.

$A(2;3;1), B(4;1;-2),$

$C(6;3;7), M(-5;-4;8).$

$\alpha: 2x-3y-2z+6=0,$

$\beta: 3x+3y+z-1=0.$

Вариант 28.

1. $P(-1;1), 28x-y+4=0.$

2. $3x-y+1=0, \begin{cases} x=3t+2, \\ y=-t+1. \end{cases}$

3 – 8.

$A(1;1;2), B(-1;1;3),$

$C(2;-2;4), M(2;3;8).$

$\alpha: 3x+4y+3z+1=0,$

$\beta: 2x-4y-2z+4=0.$

Вариант 30.

1. $P(-11;30), \frac{x-1}{2} = \frac{y+1}{-3}.$

2. $5x-2y+10=0,$

$$\begin{cases} x=2t-5, \\ y=5t-7,5. \end{cases}$$

3 – 8.

$A(1;1;-1), B(2;3;1),$

$C(3;2;1), M(-3;-7;6).$

$\alpha: 6x-5y+3z+8=0,$

$\beta: 6x+5y-4z+4=0.$

