1 Найти общее решение уравнения с частными производными.

1). $(3x+5y)(\frac{\partial z}{\partial x})+(-5x+3y)(\frac{\partial z}{\partial y})=0$

2). $(-4x-25y)(\frac{\partial z}{\partial x})+(x+4y)(\frac{\partial z}{\partial y})=0$

3). $(-2x+5y)(\frac{\partial z}{\partial x})+(-5x-2y)(\frac{\partial z}{\partial y})=0$

4). $(x-y)(\frac{\partial z}{\partial x})+(17x-y)(\frac{\partial z}{\partial y})=0$

5). $(x+3y)(\frac{\partial z}{\partial x})+(-6x-5y)(\frac{\partial z}{\partial y})=0$

6). $(2x+3y)(\frac{\partial z}{\partial x})+(-3x+2y)(\frac{\partial z}{\partial y})=0$

7). $(x-y)(\frac{\partial z}{\partial x})+(2x-y)(\frac{\partial z}{\partial y})=0$

8). $(2x+3y)(\frac{\partial z}{\partial x})+5x(\frac{\partial z}{\partial y})=0$

9). $3y(\frac{\partial z}{\partial x})+(7x+4y)(\frac{\partial z}{\partial y})=0$

10). $(2x+15y)(\frac{\partial z}{\partial x})+x(\frac{\partial z}{\partial y})=0$

11). $y(\frac{\partial z}{\partial x})+(8x+2y)(\frac{\partial z}{\partial y})=0$

12). $x(\frac{\partial z}{\partial x})+(2x-y)(\frac{\partial z}{\partial y})=0$

13). $(-2x+3y)(\frac{\partial z}{\partial x})+(4x+2y)(\frac{\partial z}{\partial y})=0$

14). $(3x-2y)(\frac{\partial z}{\partial x})+(-6x+4y)(\frac{\partial z}{\partial y})=0$

15). $(-2x+5y)(\frac{\partial z}{\partial x})+(-5x-2y)(\frac{\partial z}{\partial y})=0$

16). $(-2x+8y)(\frac{\partial z}{\partial x})+(-x+2y)(\frac{\partial z}{\partial y})=0$

17). $(3x-y)(\frac{\partial z}{\partial x})+(x+3y)(\frac{\partial z}{\partial y})=0$

18). $(x-5y)(\frac{\partial z}{\partial x})+(2x-y)(\frac{\partial z}{\partial y})=0$

19). $(x+2y)(\frac{\partial z}{\partial x})+(-2x+y)(\frac{\partial z}{\partial y})=0$

20). $(4x-5y)(\frac{\partial z}{\partial x})+x(\frac{\partial z}{\partial y})=0$

21). $3y(\frac{\partial z}{\partial x})+(7x-4y)(\frac{\partial z}{\partial y})=0$

22). $(-2x+3y)(\frac{\partial z}{\partial x})+5x(\frac{\partial z}{\partial y})=0$

23). $4y(\frac{\partial z}{\partial x})+(3x+4y)(\frac{\partial z}{\partial y})=0$

24). $(2x+y)(\frac{\partial z}{\partial x})+15x(\frac{\partial z}{\partial y})=0$

25). $2y(\frac{\partial z}{\partial x})+(6x+4y)(\frac{\partial z}{\partial y})=0$

26). $3y(\frac{\partial z}{\partial x})+(7x-4y)(\frac{\partial z}{\partial y})=0$

27). $(-2x+3y)(\frac{\partial z}{\partial x})+5x(\frac{\partial z}{\partial y})=0$

28). $4y(\frac{\partial z}{\partial x})+(3x+4y)(\frac{\partial z}{\partial y})=0$

29). $(2x+y)(\frac{\partial z}{\partial x})+15x(\frac{\partial z}{\partial y})=0$

30). $2y(\frac{\partial z}{\partial x})+(6x+4y)(\frac{\partial z}{\partial y})=0$

31). $(x-y)(\frac{\partial z}{\partial x})+(17x-y)(\frac{\partial z}{\partial y})=0$