$$\frac{2(\frac{11}{3}) + 5(\frac{1}{3}) = -1}{8 - \frac{20}{3} = -\frac{17}{3} = 1}$$

$$\frac{8}{3} - \frac{20}{3} = -\frac{17}{3} = 1$$

$$P = \frac{14}{3} - \frac{14}{3}$$

Name:

Exercise 1. Find the point on the plane $x^2 + 2y + z = 2$ which is closest to the point P(2,0,4).

Plane
$$x' + 2y + 2 = 2$$
 $f(x,y) = 2x^2 + 41xy + 5y^2 + 8$
Point $(7,0,1)$ $f(x) = 41x + 41y = 0$
 $f(y) = (0y + 41x)$ $f(y) = -41$
 $f(y) = (-4)^2 + 41x$ $f(y) = -41$
 $f(y) = (-4)^2 + 41xy + 5y^2 + 8$
 $f(y) = (-4)^2 + 41xy + 5y^2 + 8$
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 $f(y) = (-4)^2 + 41xy + 5y^2 + 8$
 $f(y) = (-4)^2 + 41xy + 6xy + 8$
 $f(y) = (-4)^2 + 41xy + 6xy + 8$
 $f(y) = (-4)^2 + 41xy + 8$
 $f(y) = (-4)^2 + 41x$

-×17 40:P (x-2)+(x-0)3+(3-11)5 Q(x, y; 2-x-2y) = J(x-2)2+ y2+(2-y-2y)2 (x-2) + x + (7-y-8y-1) =

ex2+0x+8+5y2+0y+11xy