Worksheet

$-y+4x^2+2=4xy$

$-dy/dx+8x=4x\,dy/dx+4y$

$8x-4y=4x\,dy/dx+dy/dx$

$\frac{8x-4y}{4x+1}=\frac{dy/dx(4x+1)}{4x+1}$

$8x-4y=0$

$8(-1)-4y=0$ $(-1,-2)$

$-4y=8$

$y=-2$

Dec 11-9:40 AM

$-xy-3=y^2+5x$

$y=2$

$-x\,dy/dx-y=2y\,dy/dx+5$

$-x\,dy/dx-2y\,dy/dx=y+5$

$\frac{dy/dx(-x-2y)}{-x-2y}=\frac{y+5}{-x-2y}$ $\rightarrow\frac{2+5}{-(-1)-2(2)}\rightarrow\frac{7}{-3}$

$-x(2)-3=2^2+5x$

$x=-1$

$y-2=-\frac{7}{3}(x+1)$

Dec 11-9:48 AM