Warm-up 3/25

Simplify.

a. $(3x^3 - 5x + x^4 - 1) - (2x^3 - 3x - 7)$

$(3x^3 - 5x + x^4 - 1) + (-2x^3 + 3x + 7)$

$x^4 + 3x^3 - 5x - 1$
$-2x^3 + 3x + 7$

$x^4 + x^3 - 2x + 6$

b. $5x(x - 3)$

$5x^2 - 15x \leftarrow$

c. $(2x + 1)(5x + 7)$

$2x(5x + 7) + 1(5x + 7)$

$10x^2 + 14x + 5x + 7$

$10x^2 + 19x + 7$

Solve $\begin{cases} 3x + 2y = 14 \\ 4x - 3y = 13 \end{cases}$ (6)

$3 \rightarrow \quad 9x + 6y = 42$

$2 \rightarrow \quad 8x - 6y = 26$

$17x = 68$

$\frac{17x}{17} = \frac{68}{17}$

$x = 4$

$4.4 - 3y = 13$

$16 - 3y = 13$

$-16 \quad -16$

$-3y = -3$

$\frac{-3y}{-3} = \frac{-3}{-3}$

$y = 1$

$(4, 1)$

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More examples

Find each product

a. $4(x+2)$ $4x+8$

b. $x(1-x) =$ $x-x^2$

c. $5x(3x+7) = 15x^2+35x$

d. $(x-1)(x-2)$

$x(x-2)-1(x-2)$

$x^2-2x-1x+2$

x^2-3x+2

e. $(x+5)(x-7)$

$x(x-7)+5(x-7)$

$x^2-7x+5x-35$

$x^2-2x-35$