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Solve for y

Rewrite the equation so that y is a function of x

Then use the result to find y when x = -5, -1, 2, 4

1. $y - 4x = 9$

$+4x \quad +4x$

$y = 9 + 4x$

x	y = 9+4x
-5	9 + 4(-5) = 9 + (-20) = -11
-1	9 + 4(-1) = 9 - 4 = 5
2	9 + 4(2) = 17
4	9 + 4(4) = 25

2. $6y - 6x = 15$

$+6x \quad +6x$

$\frac{6y}{6} = \frac{15}{6} + \frac{6x}{6}$

$y = 2.5 + 1x$

x	y
-5	2.5 + 1(-5) = -2.5
-1	2.5 + 1(-1) = 1.5
2	2.5 + 1(2) = 4.5
4	2.5 + 1(4) = 6.5

3. $4 - y = 7x$

$-4 \quad -4$

$\frac{-1y}{-1} = \frac{7x}{-1} - \frac{4}{-1}$

$\boxed{y = -7x + 4}$

4. $5y - 5 = 6x$

$+5 \quad +5$

$\frac{5y}{5} = \frac{6x}{5} + \frac{5}{5}$

$\boxed{y = \frac{6}{5}x + 1}$

$\boxed{y = 1.2x + 1}$

5. $2x + y = 4$

$-2x \quad -2x$

$\boxed{y = 4 - 2x}$

6. $5x - 5y = 15$

$\frac{5x}{5} \quad \frac{5y}{5} \quad \frac{15}{5}$

$x - y = 3$

$-x \quad -x$

$\frac{-y}{-1} = \frac{3}{-1} - \frac{x}{-1}$

$\boxed{y = -3 + x}$

Solve

Rewrite the equation so that y is a function of x	
	1. $\frac{1}{3}y - 5 = 6x$ (3) $y - 15 = 18x$ $+15 \quad +15$ $y = 18x + 15$ 2. $\frac{4}{5}y - 2 = -3x$ (5) $4y - 10 = -15x$ $+10 \quad +10$ $\frac{4y}{4} = \frac{-15x}{4} + \frac{10}{4}$ $y = -\frac{15}{4}x + 2.5$ 3. $\frac{7x}{2} + \frac{1}{9}y = -5$ (2) (9) $7x + \frac{2}{9}y = -10$ (9) $63x + 2y = -90$ $-63x \quad -63x$ $\frac{2y}{2} = \frac{-90}{2} - \frac{63x}{2}$ $y = -45 - 31.5x$ (7) 4. $\frac{11}{3}x - \frac{2}{7}y = 2$ (21) $77x - 6y = 42$ $-77x \quad -77x$ $\frac{-6y}{-6} = \frac{42}{-6} - \frac{77x}{-6}$ $y = -7 + \frac{77}{6}x$