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Domain: x-values from left to right

Range: y-values from bottom to top (lowest to highest)

Increase: up from left to right (slope pos)

Decrease: down from left to right (slope neg)

Graph the linear equations: (Hint: identify the slope and y-intercept)

1. Graph: $y = \frac{1}{3}x - 2$.

$\frac{1}{3}$ = slope

y-intercept

2. Graph: $y = -x + 5$.

slope = $-\frac{1}{1}$

y-int

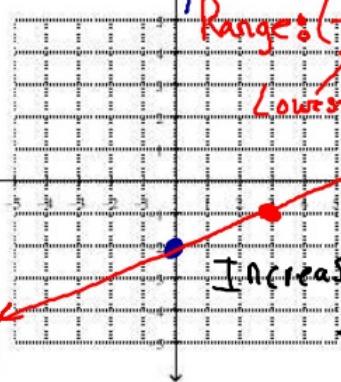
Domain:

Left: $-\infty$

Right: ∞

$(-\infty, \infty)$

Further Left
Further Right



2. Graph: $y = -x + 5$.

slope = $-\frac{1}{1}$

y-int

Domain: $(-\infty, \infty)$

Range: $(-\infty, \infty)$

Decrease: $(-\infty, \infty)$

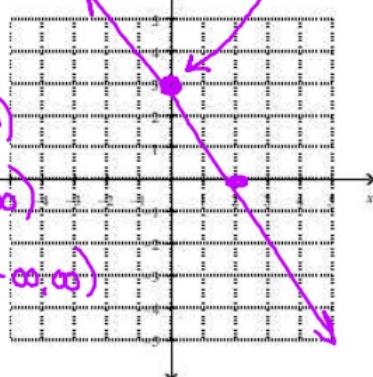
3. Graph: $y = -\frac{3}{2}x + 3$

$y = -\frac{3}{2}x + 3$

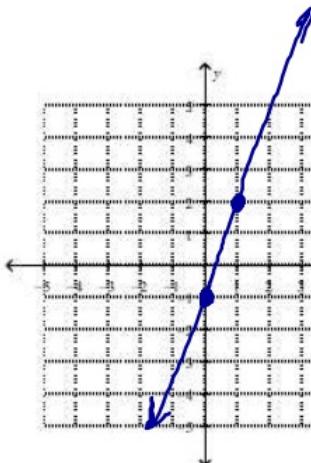
D: $(-\infty, \infty)$

R: $(-\infty, \infty)$

Decrease: $(-\infty, \infty)$



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



Solve for y

Rewrite the equation
so that y is a
function of x

Give the slope, y -
intercept, and graph
the equation

A) $-4x + y = 9$

$+4x \quad +4x$

$y = 9 + 4x$

B) $-19x + 9y = 8x - 9$

$+19x \quad +19x$

$\frac{9y}{9} = \frac{27x}{9} - \frac{9}{9}$

$y = 3x - 1$

C) $-3x + 7y - 7 = -1 - 8y$

$+8y \quad +8y$

$\underline{-3x + 15y - 7 = -1}$

$\underline{-3x + 15y = 6}$

$+3x \quad +3x$

$\underline{\frac{15y}{15} = \frac{6+3x}{15}}$

$y = \frac{6}{15} + \frac{1}{5}x$

D) $8x + 2(y + 13) = 10$