

BE-1A Monday 11-23-09

① SOLVE: $3x + 6 - x = x + 5$

② Solve for y: $3x - 2y = 12$

③ SOLVE: $\frac{x+3}{5} = \frac{4}{9}$

④ A map has a scale of 1 in. = 70 km.
How far is 4.5 in on the map in
km?

⑤ Sign Rules:

Ⓐ $-2 - 3 = ?$

Ⓓ $-2(-3) = ?$

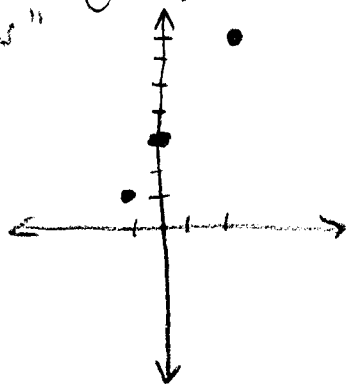
Ⓑ $-5 + 3 = ?$

Ⓔ $\frac{-8}{-4} = ?$

Ⓒ $-5 - (-3) = ?$

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- RETURN/REVIEW HW6/QUIZ 6 (Silly Bandz Drawing)
 - EXAM 7. NEXT WEEK. (3 weeks left in Q2)
 - 11-30 → 12-4 ⇒ EXAM 2
 - LAST REDOS? → • 12-7 → 12-11 ⇒ REVIEW for Sem. Exam (PLUS?)
 - 12-14 → 12-18 ⇒ Sem. EXAM

When given $y = 2x + 3$ $x = \{-1, 0, 2\}$,
 the domain was just $x = \{-1, 0, 2\}$ so
 the range is just $y = \{1, 3, 7\}$ and the
RELATION you graph is just $\{(-1, 1), (0, 3), (2, 7)\}$
 "set of ordered pairs"

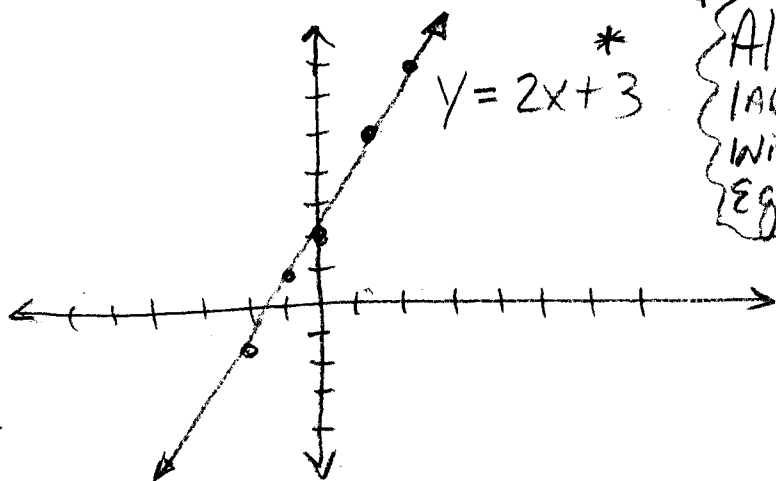


↑ ↑ ↑
3 points

What is different if given $y = 2x + 3$?

- ① No domain given, Assume it is all real numbers
- ② Pick $x = \{-2, -1, 0, 1, 2\}$ to see where line goes
- ③ Graph points, then connect with line and arrows.

$y =$	
x	$2x + 3$
-2	$2(-2) + 3 = -1$
-1	$2(-1) + 3 = 1$
0	$2(0) + 3 = 3$
1	$2(1) + 3 = 5$
2	$2(2) + 3 = 7$



* ALWAYS
LABEL
WITH
EQUATION

Is There ANY way to know Ahead of time that your graph will be a line?

Yes... if only $x = x'$, $y = y'$, and numbers separated by + or - $\Rightarrow$ line!

(EX) $2x + 3y + 6 = 9$ LINE

$2x - 3y - 6 = 0$ LINE

$\frac{1}{5}x - \frac{1}{3}y + 2 = 19$ LINE

$5xy + 3 = 0$

NOT
LINE

(XY)

$\frac{1}{x} - 2y = 6$

NOT LINE

$\div$ by X

$0.2x + 17y = 2x$

LINE

$5x^2 + 2y = 9$

NOT LINE

(x^2)

Graph: ① $y = -4x + 1$

② $3x - 2y = 6$

Homework: Pg 215 # 20-23

(Assume domain is All real numbers)
