

BE-PRECALC WEDNESDAY 9-2-09

ACT
KMI
JUNE
09

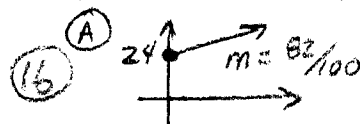
- ① Four points, A, B, C, and D lie on a circle having a circumference of 15 units. B is 2 units counterclockwise from A. C is 5 units clockwise from A. D is 7 units clockwise from A and 8 units counterclockwise from A. What is the order of the points, starting with A and going clockwise around the circle?

Multiple Choices:

- Ⓐ A, B, C, D
Ⓑ A, B, D, C
Ⓒ A, C, B, D
Ⓓ A, C, D, B
Ⓔ A, D, C, B

• Homework review Pg 44 # 15-19

⑮ $6x + y = -22$



Ⓐ 24 billion

Ⓑ 0 disp. income
⇒ 24 billion PCE

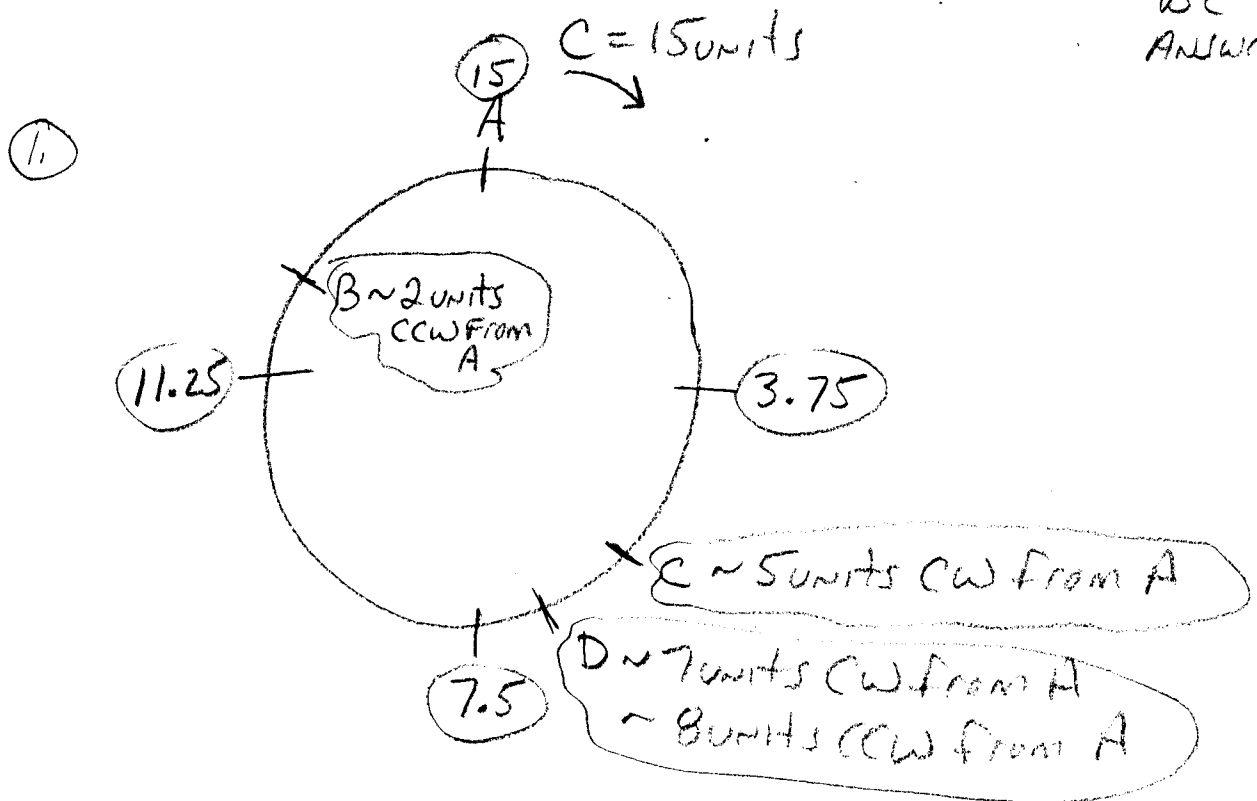
⑰ $x^3 + 3x^2 + 3x + 1$

Ⓓ yes

⑱ $y = 1 - 3x$

$x^3 + 1$

BE
ANSWER



Going CW from A $\Rightarrow$ A, C, D, B
Answer (D)

Ch. 1-7 Piecewise Function

See Ex 1 Pg 46

$$f(x) = \begin{cases} 1 & \text{if } x \leq -2 \\ 2+x & \text{if } -2 < x \leq 3 \\ 2x & \text{if } x > 3 \end{cases}$$

Equation - MATH expression WITH $=$,

Inequality - MATH expression WITH $<, >, \leq, \geq$

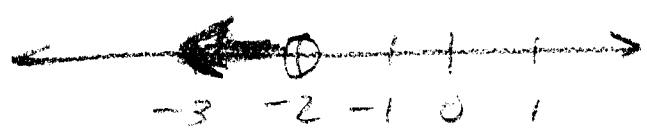
Solve Equations $\Rightarrow$ GRE

INequalities $\Rightarrow$ GRI

SAME AS GRE but if you multiply or divide by a negative, change all signs and flip the inequality symbol.

$$\begin{array}{rcl} \text{EX) } -3x + 2 & > & 8 \\ & -2 & -2 \\ \hline -3x & > & 6 \\ & \div -3 & \div -3 \\ \hline x & < & -2 \end{array}$$

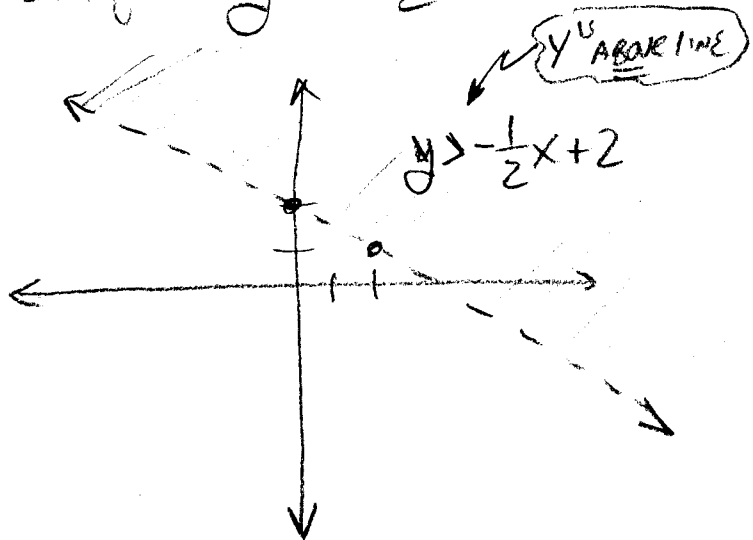
$x < -2$



A LINEAR Inequality $\Rightarrow$ has X, Y

pg 52

EX) GRAPH $y > -\frac{1}{2}x + 2$



Graph boundary line $y = -\frac{1}{2}x + 2$

$<, >$ -----
 $\leq, \geq$ -----
 SHADE "correct side"

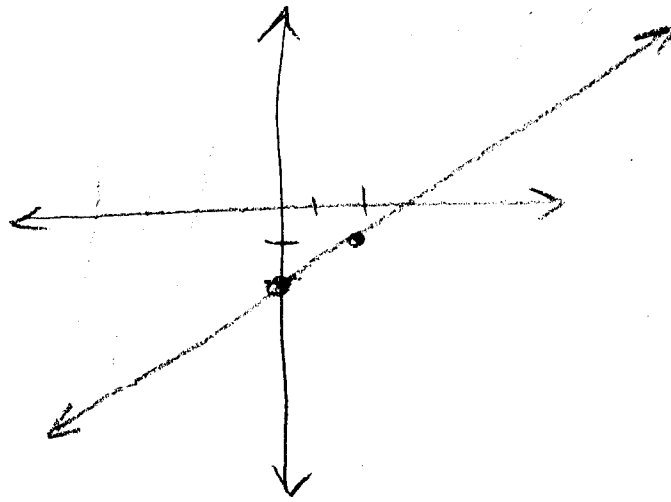
GRAPH: $2x - 4y \leq 8$

$$-2x$$

$$-2x$$

$$\frac{-4y}{-4} \leq \frac{-2x + 8}{-4}$$

$$y \geq \frac{1}{2}x - 2$$



Homework: Pg. 55 # 4, 5, 9, 11.