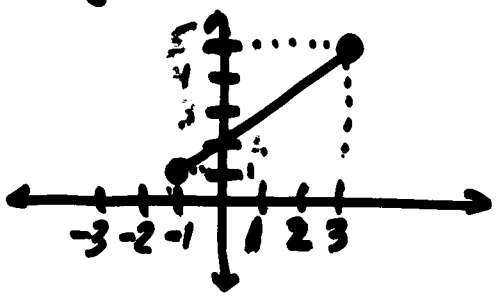
BE-1B TUESDAY 9-25-07

① What is THE <u>RANGE</u> OF THE function graphed below:



② What is THE domain?

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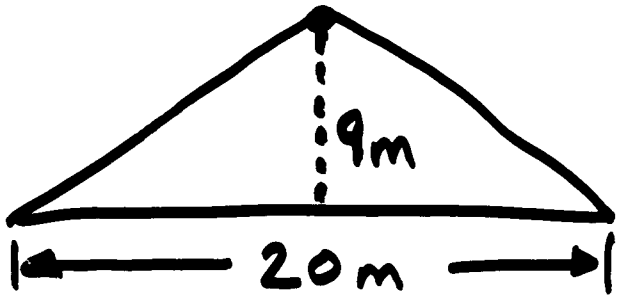
③ Find the area of the triangle.

Use THE REFERENCE SHEET TO FIND the formula IF YOU DO NOT KNOWS it.



AHSGE WB

① Pg 48 # 7
② S/A

③ Pg 51 # 7

Ch. 5-4 Writing Equations in S-I Form

Find the EOL through $(-3,-1), (6,-4)$

Find m

$$m = \frac{y_2 - y_1}{x_2 - x_1} \qquad (-3,-1), (6,-4)$$

$$m = \frac{-4-(-1)}{6-(-3)} = \frac{-4+1}{6+3} = \frac{-3}{9} = -\frac{1}{3}$$

$$\boxed{m = -\frac{1}{3}}$$

Use one (x, y) pair in $y = mx + b$

Pick $(-3,-1)$ $\quad m = -\frac{1}{3}$

x, y

$$-1 = -\frac{1}{3} \cdot -3 + b$$

$$-1 = \frac{3}{3} + b$$

$$-1 = 1 + b$$

$$-1 \quad -1$$

$$\boxed{-2 = b}$$

Write $y = mx + b$

$$\boxed{y = -\frac{1}{3}x - 2}$$

{Ex 2 Pg 281

Find EOL through (1,5), slope = 2

(1,5)
x, y

$m = 2$

Your turn:

- Find EOL through (6,0), (0,4)
- Check if answer is reasonable by graphing the 2 points and connecting with a line.

Homework:

- Pg. 284 # 13 to 15 and 21 to 23
- Paper airplane project due tomorrow.