## Bellwork

Alg 2B Wednesday, December 6, 2017

1. The Vertices are  $(3\frac{2}{3}, -4)$  and  $(6\frac{1}{3}, -4)$  and a Focus is  $(5\frac{5}{6}, -4)$ . Write the equation of this function. Make sure your answer doesn't have any decimals or compound fractions.

- 2. A machine puts c caps on bottles in m minutes. How many hours will it take to put caps on b bottles?

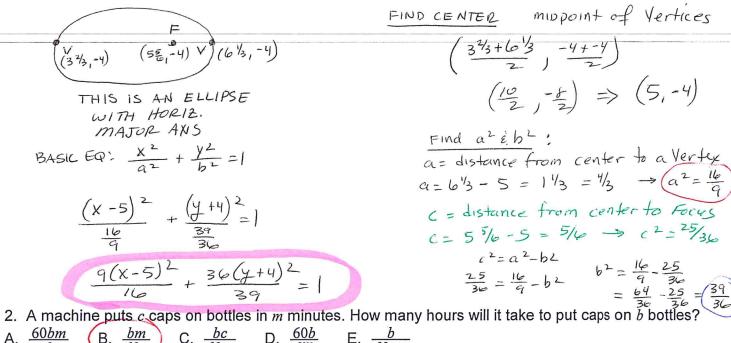
- B.  $\frac{bm}{60c}$  C.  $\frac{bc}{60m}$  D.  $\frac{60b}{cm}$  E.  $\frac{b}{60cm}$

- 3. Paint needs to be thinned to a ratio of 2 parts paint to 1.5 parts water. The painter has by mistake added water so that he has 6 litres of paint which is half water and half paint. What must he add to make the proportions of the mixture correct?
- A. 1 litre paint
- B. 1 litre water
- C. ½ litre water and one litre paint
- D. ½ litre paint and one litre water
- E. 1/2 litre paint

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B. 
$$\frac{bm}{60c}$$
 C.  $\frac{bc}{60m}$  D.  $\frac{60b}{cm}$ 

C. 
$$\frac{bc}{60m}$$

D. 
$$\frac{60b}{cm}$$

E. 
$$\frac{b}{60cm}$$

$$\frac{C}{m} \frac{capc}{min} \cdot \frac{Camin}{hr} = \frac{coc}{m} \frac{capps}{hr}$$

$$\frac{caps}{hr} \times hrs = \# caps$$

$$\frac{m}{60c} \cdot \left(\frac{60c}{m}\right) \cdot \left(\frac{m}{m}\right) = \left(\frac{m}{60c}\right)$$

$$H = \frac{bm}{60c}$$

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