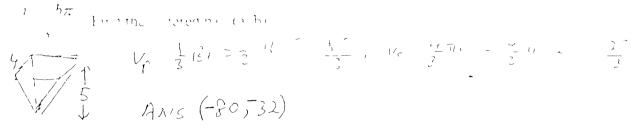
A) 
$$(8c.762)$$
 D)  $3 = 1/3$ 

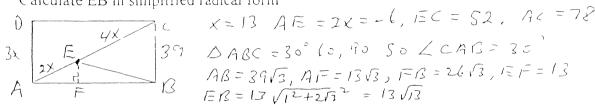
B) 
$$13\sqrt{13}$$

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 E)  $\times < 1/2$ ,  $\times > 1$ .

A) An ice cream cone has the shape of a square pyramid of height 5 inches where the side of the square base is 4 inches. A spherical scoop of ice cream of diameter 4 inches is placed in the cone If the ice cream were allowed to melt, the volume of ice cream that would overflow the cone is



B) In rectangle ABCD E is on diagonal AC so that AF AD FC = 2 - 3 - 4 and BC = 30Calculate EB in simplified radical form



C) Jon has a number of coins in his pocket Eleven of them are nickels one-seventh are dimes. and one-third are pennies. What is the total value of Jon's coins?

$$\frac{1}{7}X + \frac{1}{3}X + 11 = X, \quad \frac{10X}{21} + 11 = X, \quad \frac{11X}{21} = 11, X = 21$$

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$$\frac{1}{2}X + \frac{1}{2}X + \frac{1}{2}X$$

E) Solve for 
$$x \left( \frac{1}{1} \frac{1}{2} \right) = \frac{1}{1} \frac{1}{2} - 2 = 0$$
  $(x+1) = -(x+1)(x-2) - 2(x-1) < 0$   
mult  $5y(x-2)$  To get  $2x^2 - 1/x + 5 > 0$   $(2x-1)(x-5) > 0$   
Ans  $x < \frac{1}{2} = -x > 5$ 

F) Given x \* y = 2x + 3y, solve the equation (3 \* a) \* (a \* 3) = 24 \* 13 for a  $2(6+3a)+3(2a+9)=48+39=87, 12a+39=87, \alpha=4$