## Test 8 section 2 (838)

```
9) 13/2
                 6.5
1) E
        10) 10
2) E
         11) 45
3) B
         12) 105
4) B
        13) 12.5 25/2
5) D
        14) 3/50 0.06
6) D
7) C
    15) 192
         16) 8/7 1.14
8) A
     17) 0/1<X<3/8 0<X<.375
     18) 1350
```

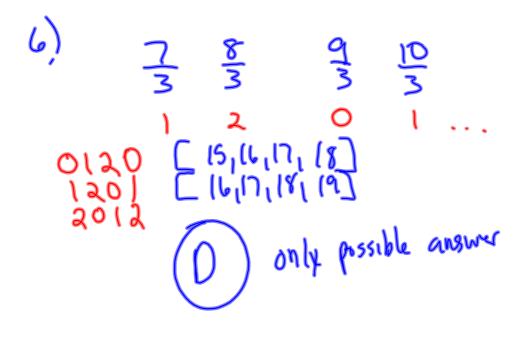
1) 
$$\frac{4.50}{300} = 1.50$$
 each  $\frac{450}{300} \times 5 = 10.00$  (E)
2) look at answers
(E)  $\frac{1}{3} = 2$  AB=4 BC=2 BC=2

4) 
$$|x|-|y|=3 \Rightarrow dx \in (xynoringraph signs)$$

extra B, A, C

but  $|x|$  is  $|x| = (-4, -1)$ 

5)  $x < 20 38\%$ 
 $20 \le x < 40 28\%$ 
 $50\%$ 
 $50\%$ 
 $(5)(100\%)$ 



7) 
$$y \sim \frac{1}{x} \Rightarrow y = \frac{k}{x}$$

$$y = \frac{75}{25} = 3$$
OR  $y = \frac{k}{x} \Rightarrow y = \frac{15}{25} = 3$ 

$$y = \frac{75}{25} = 3$$
OR  $y = \frac{k}{x} \Rightarrow y = \frac{15}{25} = 3$ 

$$y = \frac{15}{25} = 3$$

$$\frac{15}{25} = 3$$

8) 
$$\frac{2x+2=2y}{2x+2y+2=20}$$
  
 $\frac{2x+2=20-2y}{2x+2=20-2y}$   
 $\frac{2x+2=20-2y}{4y=20}$   
OR guess:  
 $\frac{2x+2=2y}{2x+2=20}$   
 $\frac{2x+2=20}{2x+2=10}$   
 $\frac{2x+2=10}{2x+2=10}$ 

9) 
$$2(X-3)=7$$
  
 $2(X-3)=7$   
 $2X=13$   
 $2X=6.5$ 

10) 
$$y-4=3(x-2)$$
  $p(4,y)$   
 $y-4=3(4-2)$   
 $y-4=6$   
 $y=10$   
A 20 miles (20 miles) (x get) = 60 miles  
B (3 get) (15 miles) = 45 miles

12) 
$$100 + 120 + 65 + Y = 360$$
  
 $Y = 75$   
13)  $20, 8, 14, 11, 12.5$   
 $29, 14, 11, 12.5$ 

14) 
$$X = \frac{1}{5}Y$$
  $X = FZ$   
 $Y = \frac{3}{10}Z$   $X = 5(\frac{3}{10}Z)$   
 $Z > 0$   $X = \frac{3}{50}Z$ 

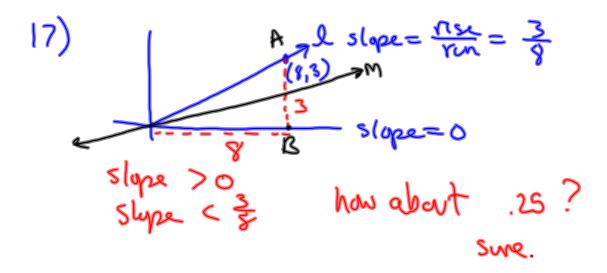
the square root of a number is another number that when multiplied by itself gives you the original number.

$$\sqrt{9} = 3$$
 because  $3.3 = 9$   
 $\sqrt{7}$   $\sqrt{7} \cdot \sqrt{7} = 7$   
 $\sqrt{9} = 7$  bc.  $7*7 = 49$ 

16) 
$$\frac{C}{C} = \frac{5}{3} \Rightarrow \frac{C}{4} \Rightarrow \frac{2}{7}$$

$$\frac{C}{4} \Rightarrow \frac{2}{7}$$

$$\frac{C}{7} \Rightarrow \frac{2}{7}$$



## **Test 8 section 5 (855)**

- 1) B
- 2) E
- 3) C
- 4) D
- 5) B
- 6) A
- 7) C
- 8) C

- 9) D
- 10) E
- 11) B
- 12) C
- 13) C
- 14) D
- 15) A
- 16) A

17) D

18) A

19) E

20) E

- 1) "by inspection" x-39 (B)
- 2) m+t=≥ w+x=≥ K+r+n+s=≥ √ (È)
- 3)  $120^{9/60^{3}}$   $\Rightarrow$  25+x+120=180 x=35 C

4) diff = 600

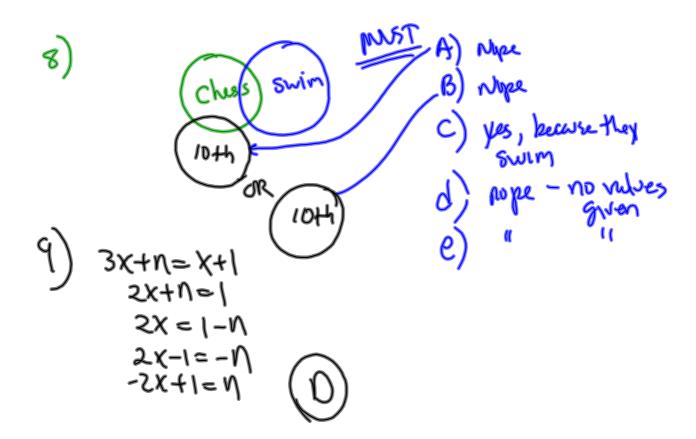
sure 15 each month

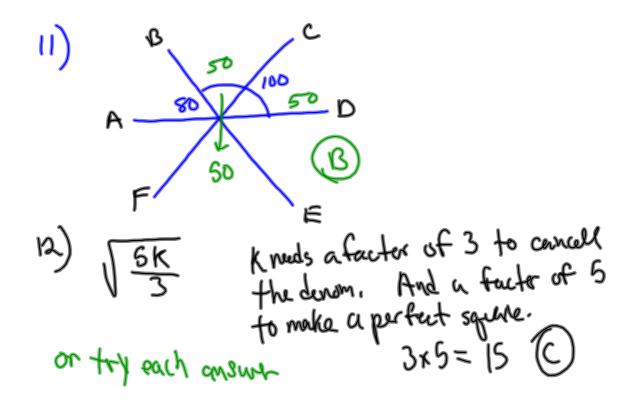
$$600 = 16 \times \frac{600}{15} = 15 \times \frac{600}{15} = 15$$
 $x = 40$  months

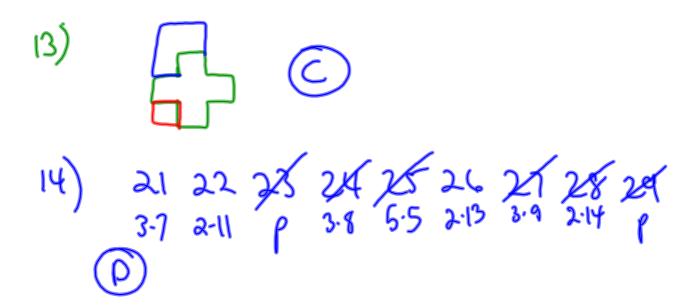
5) each side is 3x as long (equilityal)

PAOC = 3(10)

Side 3(10)







15) 
$$(7-x)^2 + (7+x)^2 = 100$$
  
 $(7-x)(7-x) = 49 - 14x + x^2$   
 $(7+x)(7+x) = 49 + 14x + x^2$   
 $2(49 + x^2) = 100$   
 $49 + x^2 = 50$  A

$$\frac{h(a)}{A} + \frac{(2, h(a))}{(2, h(a))} + \frac{(2, y)}{(2, y)}$$

$$\frac{h(a) = 0}{A} + \frac{y}{(a, h(a))}$$

test8.notebook August 02, 2012

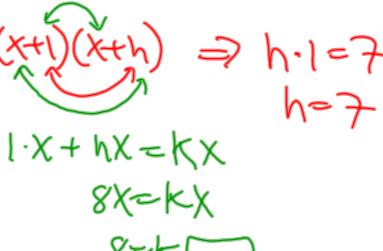
x2+hx+x+h

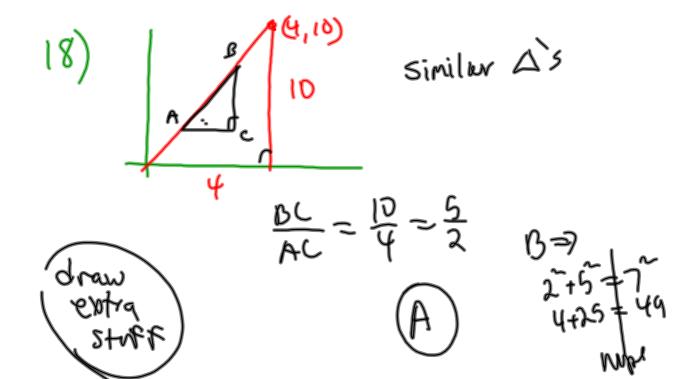
17) if k and h are constants and

 $x^2 + kx + 7$  is equivalent to (x+1)(x+h), what

is the value of k?

FOIL





19) Let the function defined by f(x) = 2x - 1. if (1/2)f(root(t))=4, what is the value of t?

$$f(x) = 2x - 1$$
 $f(x) = 2(x) - 1$ 
 $f(x) = 2x - 1$ 
 $f(x) = 2x$ 

20) If k is a positive integer, which of the following must represent an even integer that is twice the value of an odd integer?

K is even or odd 2k is even 2k+1 is odd 2(2k+1) = 2 times an odd int (4k+2) [E]

## Test 8 section 8 (867)

1) A

9) B

2) E

10) C

3) C

11) A

4) E

5) C

12) C

13) D

6) D

14) E

7) B

15) C

8) B

16) E

1) 
$$\frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{2}{4} = \frac{1}{2} = \frac{2}{4} = \frac{1}{2} = \frac{2}{4} = \frac{2}{4} = \frac{1}{2} = \frac{2}{4} = \frac$$

5) © Wh least

6) 
$$\frac{24}{10^{n}}$$
 $\frac{1}{10^{n}}$ 
 $\frac{1}{10^{n}}$ 
 $\frac{1}{10^{n}}$ 
 $\frac{1}{10^{n}}$ 
 $\frac{1}{10^{n}}$ 
 $\frac{1}{10^{n}}$ 
 $\frac{1}{10^{n}}$ 
 $\frac{1}{10^{n}}$ 
 $\frac{1}{10^{n}}$ 
 $\frac{1}{10^{n}}$ 

8) 
$$\frac{1}{4}360 = 90^{\circ} \frac{1}{5}360 = 72^{\circ}$$
  
90-72=18° (B)  
O< x < 6 (B)  
 $10$ ) top  $1X1X1 = 1$   
 $2x2X1 = 9$   
 $4x4x1 = 16$   
 $3x3X1 = 9$   
 $4x4x1 = 16$ 

test8.notebook August 02, 2012

11) 
$$4(a^{x}) = 2^{y}$$

$$3^{2}a^{x} = 2^{y}$$

$$3^{2}a^{x} = 2^{y}$$

$$3^{2}a^{x} = 2^{y}$$

$$4(a^{x}) = 2^{y}$$

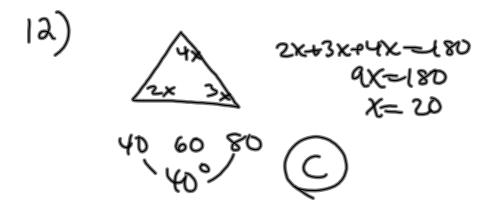
$$4(a^{x}) = 2^{y}$$

$$3^{2}a^{x} = 2^{y}$$

$$4(a^{x}) = 2^{y}$$

exponentiation > addition

test8.notebook August 02, 2012



13) 
$$50 + 30(n-1)$$
  $n = \# \text{minutes}$ 

$$C(n) = .50 + .30(n-1)$$

$$X+y+z=180$$

$$z=180-x-y$$

$$E$$

15) 
$$\frac{1}{(n-1)} \cdot \frac{1}{4} \cdot \frac{1}{(n+1)} = \frac{5}{K}$$
  $\frac{(n+1)(n+1)}{n^2-1} = \frac{5}{K}$   $\frac{n^2-1}{n} = \frac$ 

16) m people? 
$$\frac{y}{m} = $ to contribute$$
 $y \text{ dellors}$ 
 $p \text{ dead keats}$ 
 $m-p \text{ contribute}$ 
 $\frac{y}{m-p} - \frac{y}{m} = $ to contribute$ 
 $\frac{y}{m-p} \text{ contribute}$ 
 $\frac{y}{m-p} - \frac{y}{m} = $ to contribute$ 
 $\frac{y}{m} - \frac{y}{m-p} = $ to contribute$ 
 $\frac{y}{m} - \frac{y}{m} = $ to contribute$