## **Test 6 section 3 (716)**

1) D

2) B

3) A

4) C

5) D

6) C

7) B

8) A

9) 120

10) 6/25

17) 11

18) 3/8

11) 1,11

12) 39

13) 6500

14) 5/18

15) 2

16) 5

1) 
$$.3 - 3.25$$
 D  
2)  $(0, \frac{1}{2})$   $dist = \frac{1}{2}$  B  
 $c_1d$   $dist = (\sqrt{2})(\frac{1}{2})$  so  $>\frac{1}{2}$   
3)  $6x = 180$   $2x + y = 180$   $y = 180 - 72 = 108$  A  
4)  $100x c = 6500 + 65 = 65c = 11 = 101$  C  
5)  $m^{x} \cdot m^{7} = m^{2}$   $(m^{5})^{y} = m^{5}$   $x + 7 = 28$   $5 \cdot y = 15$   $x + 21$  D

test6.notebook August 03, 2012

8) 
$$\frac{d}{dt} = \frac{dt}{dt}$$
 re dilles per orner  $\frac{dt}{dt}$  is  $\frac{dt}{dt}$  and  $\frac{dt}{dt}$   $\frac{dt}{dt}$   $\frac{dt}{dt}$   $\frac{dt}{dt}$   $\frac{dt}{dt}$ 

8) 
$$\frac{d}{8} = \text{dollars for one cone}$$
 $C = \text{cups for one once}$ 
 $\frac{d \text{dollars}}{8 \text{conces}} \cdot \frac{1000000}{\text{cops}} = \frac{d \cdot 1}{8 \cdot C} \cdot \frac{dollars}{\text{cup}}$ 
 $\frac{d}{8C}$ 

(A)

9) 
$$\frac{10}{4} = \frac{1}{12} \Rightarrow 120 = 40$$
  
10)  $150,30,6,\frac{1}{5},\frac{1}{25}$ 

$$\overline{AE} = 1.11$$

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12)
$$X + X + 1 + X + 2 + X + 3 + X + Y = 185$$

$$5x + 10 = 185$$

$$6x = 175$$

$$X = 35$$

$$X + Y = 39$$

$$X - Y + X - 3 + X - 2 + X - 1 + X = 185$$

$$5x - 10 = (85)$$

$$5x = 195$$

$$x = 39$$

13) 
$$p = 1200 + .25 = 2500$$
  
 $.25 = 1300$   
 $5 = 6500$ 

$$\frac{40}{360} = \frac{x}{2.5}$$

$$10 = 36 \times x$$

$$x = \frac{10}{36} = \frac{5}{18}$$

16) 
$$\chi^{2}-y^{2}=10$$
  
 $(x+y)(x-y)=10$   
 $(x-y)=2$   
 $(x-y)=2$   
 $(x-y)=2$   
 $(x-y)=10$   
 $(x-y)=2$   
 $(x-y)=10$   
 $(x-y)=10$ 

16) In 51de = square SD 4 D'S are congruent  
50 outside is square SD each D
$$A = (\sqrt{5})^2 = 5$$

$$A = (\sqrt{5})^2 = 5$$

$$A = (\sqrt{5})^2 = 5$$

$$A = (\sqrt{5})^2 = 6$$

$$A = (\sqrt{5})^2 = 6$$

modulus "mod"

JRK

and get permaindre

J%K

18) 
$$\frac{\lambda}{p} = 70$$
  $\frac{y}{n} = 92$ 
 $\frac{y}{n} = 92$ 

$$\frac{x_{+}y}{p_{+}n} = 86$$
 $\frac{70p + 92n}{p_{+}n} = 86$ 

see solution on next page where you divide by n later in the calculations

$$70p + 92n = 86(p+n)$$

$$70p + 92n = 86p + 86n$$

$$-86n$$

$$-86n$$

$$-70p$$

$$-70p$$

$$-70p$$

$$6n = 16p$$

$$6 = 16p$$

## Test 6 section 7 (733)

1) B

2) B

3) E

4) C

5) E

6) C

7) D

8) B

9) A

10) B

11) E

12) C

13) A

14) D

15) A

16) E

17) B

18) D

19) E

20) B

5) 
$$900 = 3098 \times 900 = 3 \times \times = 4500 \times$$

9) 
$$-p^{2}+9 = p^{2}-9$$
 $2p^{2} = 18$ 
 $p^{2} = 9$ 
 $p = 3, 7$ 

10)  $\frac{300}{60} = 5$  belts/min
 $\frac{450}{60} = 7.5$  belts/min

12.5 belts/min

12.5 belts/min

12.5 belts/min

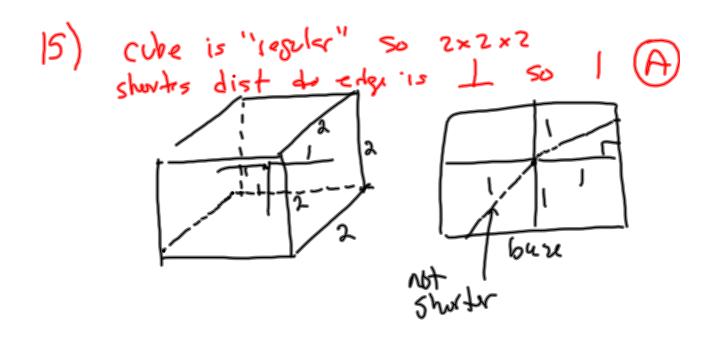
(12.5)(Xmin) = 900

X =  $\frac{900}{12.5} = 72$ 

Only reasonable answers B

- 11) eliminate A b/c t coef is (+)
  eliminate B,C g(0) \neq 2

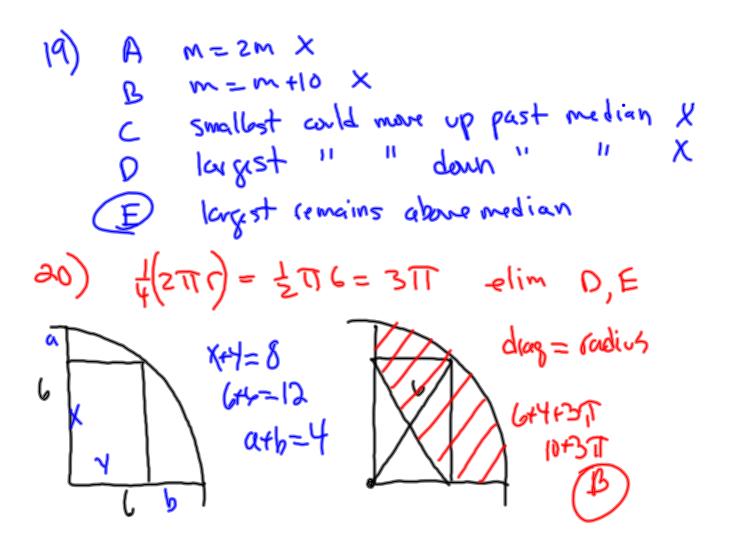
  trials (E)
- 12) Ax Bx
- 13) 3x4 3v4,314...394 A
- 14) Y-Int must =-1 eliminate B, (, E line must be steeper X3 (D)



16) 
$$y = \frac{5(2x)^3}{2z} = \frac{5 \cdot 8x^3}{2z} = \frac{5(\frac{5x^3}{2})}{2}$$

17) 
$$3200 = 5000(\frac{4}{5})^{n}$$
 $\frac{16}{25} = (\frac{4}{5})^{n}$ 
 $n=2$ 

18) in 3 more steps A is back in place, but you need I more after that for B to get back to the middle (D)



## **Test 6 section 9 (743)**

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

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

3) 
$$180 = 80 + 70 + 2$$
 A  
 $30 = 2$ 
4)  $5 + d = 35$ 
 $5 = 5 + d$ 
5)  $2d = 30$ 
 $d = 15$ 
6)  $180 = 80 + 70 + 2$  A
 $20 = 30$ 
 $20 = 15$ 
6)  $20 = 15$ 
6)  $20 = 15$ 
6)  $20 = 15$ 

6) 
$$\Delta e \sim \Delta t$$

$$\Delta e = k\Delta t$$

$$\Delta$$

10) 
$$m < 0$$
  $m-3 < 0$   
 $|m-3|=5 \Rightarrow -(m-3)=5$   
 $-m+3=5$   
 $-m=2$   
 $|k+7|=15$   
 $|k+7|=15$   
 $|k-7|=15$   
 $|k-7|=15$ 

11) twee, 3 times 8 ©

12) 
$$PA = \frac{1}{2}PB$$
 & So are similar  $PQ = \frac{1}{2}PR$  Return  $\frac{2}{4} = \frac{1}{2}$ 

$$\frac{1}{2} = \frac{AQ}{BR}$$

$$\frac{1}{2} = \frac{AQ}{BR} \Rightarrow Q = BR$$

$$4 + 2 + 9 + 3 = 17$$

$$\frac{1}{2} = \frac{4}{BR} \Rightarrow Q = BR$$

13) 
$$q(5) = 25+5 = 30$$
  
 $h(4) = 16-4 = 12$   
 $18$   $0$   
 $14$ )  $h(m+1) = (m+1)-(m+1)$   
 $m^2 + 2m + 1 - m - 1$   
 $m^2 + m = q(m)$   $A$   
 $15$ )  $28 = 1.4 cost  $\Rightarrow cost = \frac{28}{1.4} = 20$   
 $P = .7 cost  $\Rightarrow p = .7(26) = 14$   $(6)$$$ 

