

- 1)  $-6x = -24$   
 $x = 4$  (E)
- 2)  $(-1)(1)$  (C)
- 3)  $2\left(\frac{3a^3}{4}\right) = \frac{3a^3}{2}$  (A)
- 4)  $360 - 280 = 80$   
 $\frac{80}{360} = \frac{2}{9}$  (C)
- 5)  $a = b$  (D)

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- 6)  $2a + a + 30 = 180$   
 $3a = 150$   
 $a = 50$  (C)
- 7)  $4y = -3x + 24$   
 $y = -\frac{3}{4}x + 6$  (B)
- 8)  $\frac{100(-.2) + 12}{(-.2)^3} = \frac{-20 + 12}{-.008} = \frac{8}{.008}$  (D)

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13) (D)  $12 \div 2 = 6$   
 $12 \div 4 = 3$   
 $12 \div 8 = 1.5$

14)  $\sqrt{(-2-4)^2 + (5-(-3))^2} = \sqrt{36+64} = 10$  (E)

15)  $\frac{.3}{75} = \frac{x}{420}$   $75x = 126$  (A)  
 $x = 1.7$

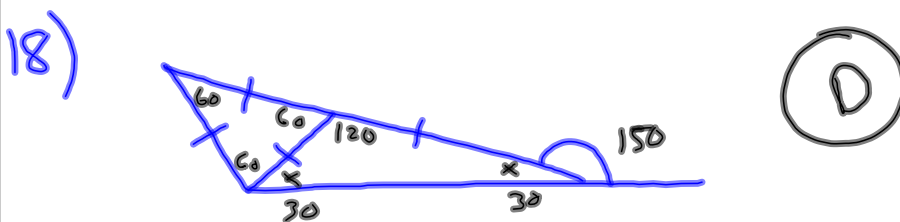
16)  $S^2 + C^2 = 1$   $.36 + C^2 = 1$   $C^2 = .64$  (E)  
 $\cos A = .8$

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17)  $25 * 90 = 2250$  (A)  
 $15 * 94 = 1410$   


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 $840 / 10 \text{ boys} = 84$

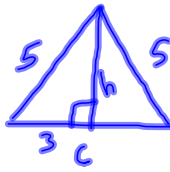


19)  $\tan 28 \approx \tan 30 = \frac{\sin 30}{\cos 30} = \frac{\frac{1}{2}}{\frac{\sqrt{3}}{2}} = \frac{1}{\sqrt{3}} \approx \frac{1}{1.7}$   
 $> \frac{1}{2}$  (B)

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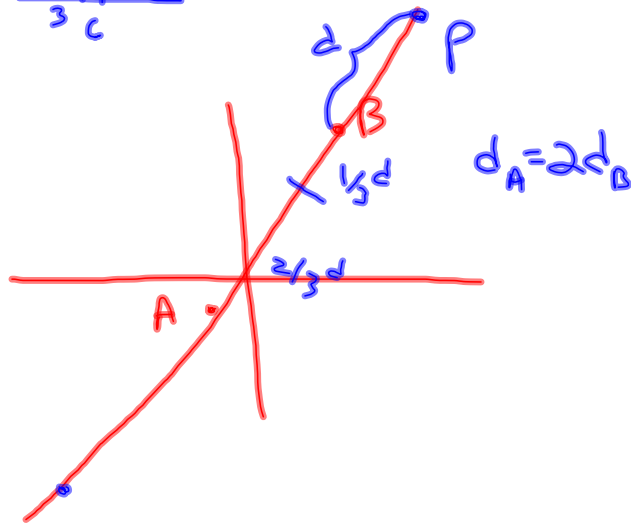
20)  $3-2x=0$      $2x=3$      $x=\frac{3}{2}$     (E)

21)



$h=4$   
 $A = \frac{1}{2}(6)(4) = 12$     (B)

22)

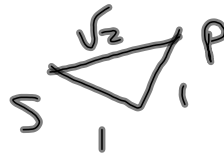
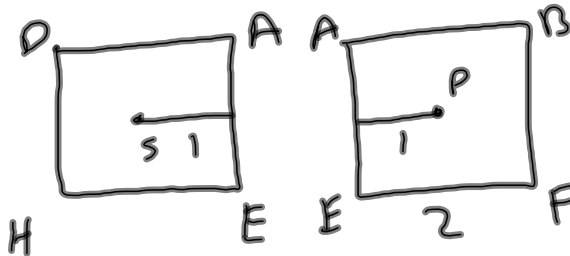


(C)

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23)

(B)



so  $4\sqrt{2}$   
 is perimeter  
 of PSRQ

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24) P1 P2 P3  
 $5 \cdot 4 \cdot 3 = 60$  (D)

25) I  $x=y=5$  ✓ it doesn't say  
 II  $x=y=48$  ✓  $x \neq y$   
 III  $x=y=77$  ✓ (E)

26)  $A = \frac{1}{2}bh$   $\frac{5}{7}$   
 $(\frac{5}{7})^2$   $\frac{25}{49} = \frac{10}{x}$   $x = \frac{490}{25}$   
 $= 19.6$   
 (E)

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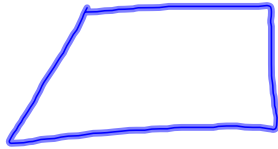
27)  $3^{100} \cdot 2^{200} \cdot 5^{100} = 2^{20a} \cdot 3^{50b} \cdot 5^{50b}$   
 $20a = 200$   $50b = 100$   
 $a = 10$   $b = 2$  (B)

28)  $x \times 8x$   

$$\begin{array}{r} 9000 \\ -1000 \\ -800 \\ \hline 7200 \\ -720 \\ \hline 6480 \end{array}$$
 (D)

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29)



→ "could" ←

- I ✓
- II ✓
- III ✓

(E)

30)  $y = 3x - 6$

$y + 6 = 3x$

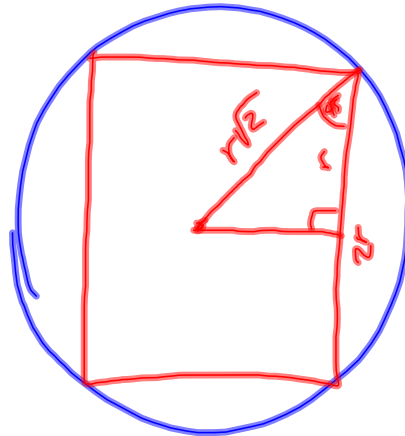
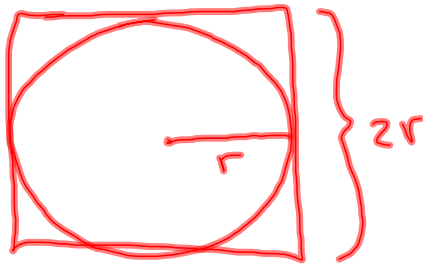
$\frac{1}{3}y + 2 = x$

(E)

const must be 2

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31)



outer Area =  $\pi (r\sqrt{2})^2$

inner Area =  $\pi r^2$

$\frac{2r^2}{r^2}$

(B)

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$$32) \text{ (B)} \quad (x-h)^2 + (y-k)^2 = r^2$$

$$33) \quad (2^{x^2-1})(2^{2x+4}) = 2^{3x+9}$$

$$x^2 - 1 + 2x + 4 = 3x + 9$$

$$x^2 - x - 6 = 0$$

$$(x-3)(x+2) = 0$$

$$x = 3, -2$$

$$x > 0$$

(C)

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34)

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