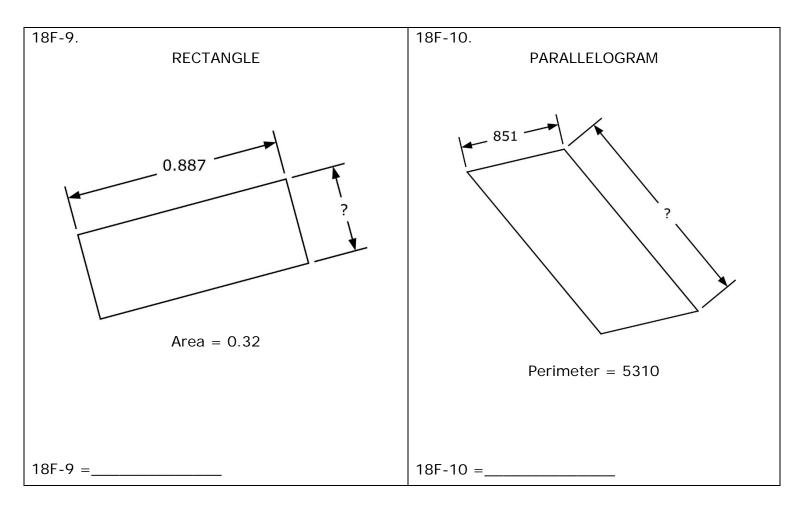
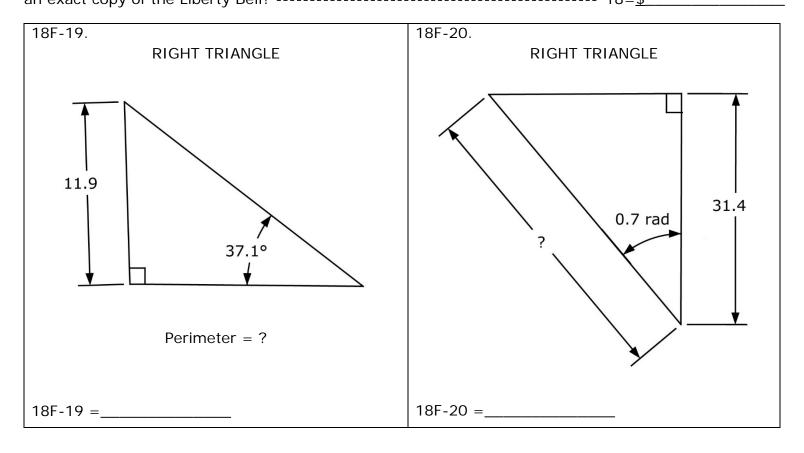


18F-1.	6.23 + 1.1 - 11.4	1=
18F-2.	0.206/0.761 + 0.246 - 0.271	2=
18F-3.	(-0.694 - 0.401 + 0.431 + 0.142)/(0.278)	3=
18F-4.	$\frac{(-0.903)(0.477 - 0.384 + 0.526)}{(-0.624)(-0.341)}$	4=
18F-5.	$\frac{\{(78.6 - 38.6 + 85.5)/(136)\}}{\{(995)(-582)/(310)\}}$	5=
18F-6. \	What is the sum of 35.7, 91 and 82?	6=
18F-7. \	What is the product of 2.33 and the sum of 7.5, 23.1 and 13.9?	7=
18F-8. \	What is the remainder of 534π divided by 89.7?	8=

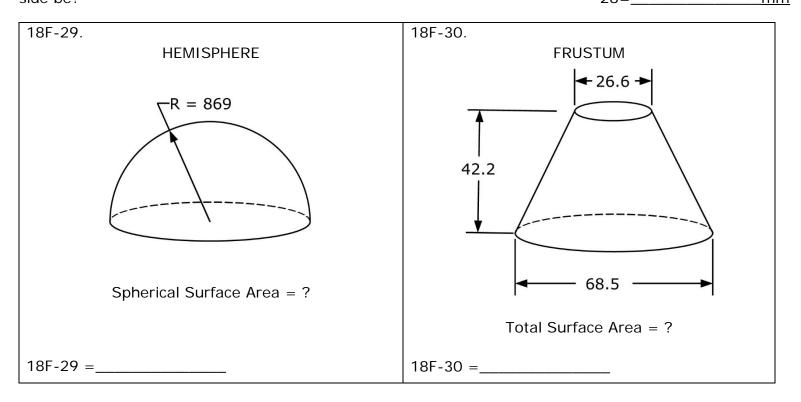


Page 18F-2

What is the total value of pennies if they were melted down and cast into an exact copy of the Liberty Bell? ------ 18=<u>\$</u>



Page 18F-3

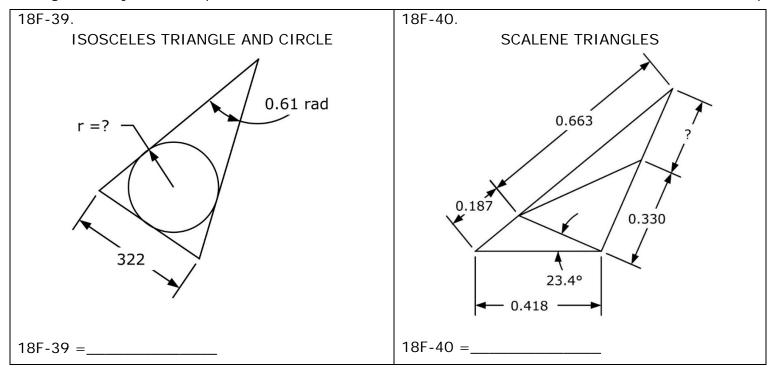


Page 18F-4

$$18F-31. \quad \frac{(-2.91 + 8.87)^2}{\sqrt{57.1 - 17.5}} + \frac{4.65}{\sqrt{9.02 + 26.2}} - 31 = 32 = 32 = 32 = 32 = 32 = 32 = 32 = 32$$

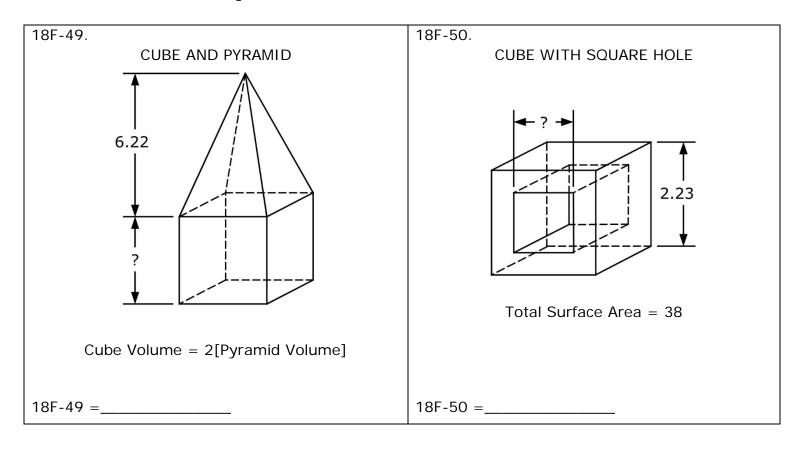
mph

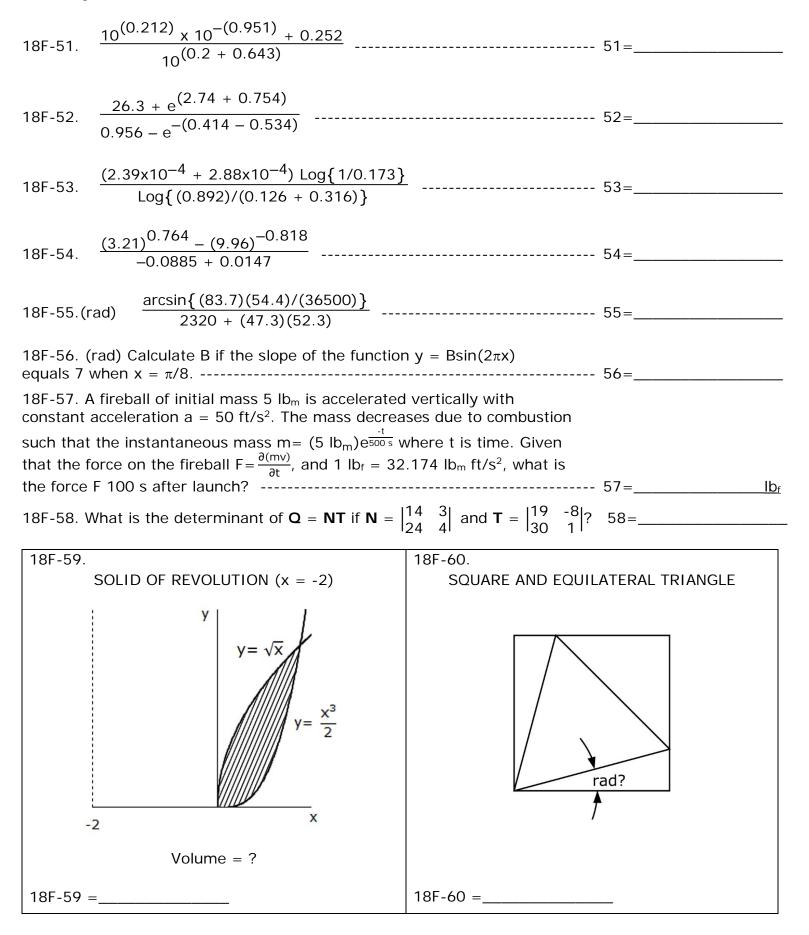
18F-38. Ginny drove from San Antonio to Ft. Stockton. She drove at 50 mph to Junction, 36.7% of the total distance. After Junction, she sped up to 70 mph for the rest of the trip to Ft. Stockton. What was her average velocity for the trip? ------ 38=______



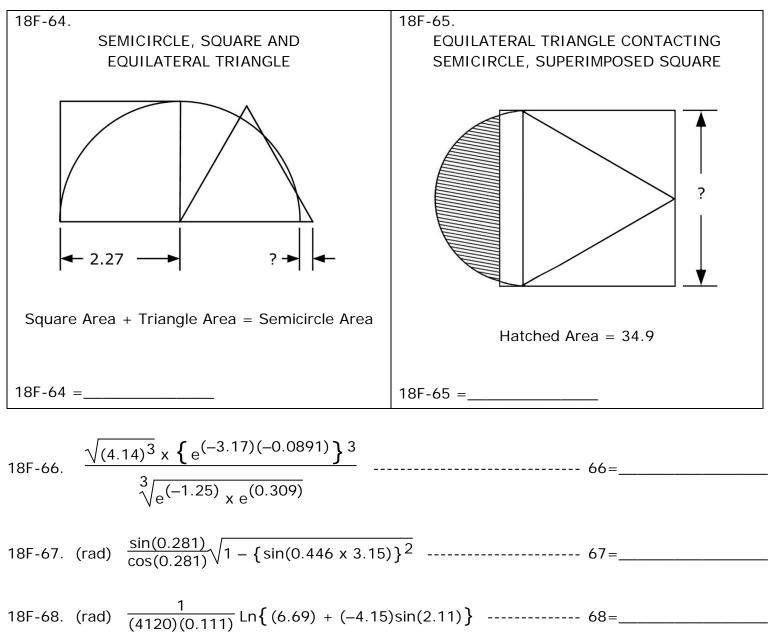
18F-41.	$\frac{10^{-(1.58 - 1.69)}}{-8.7 + 6.17} \dots$	41=
18F-42.	$8.33 \times 10^{-5} e^{0.103} + (4.40 \times 10^{-5}) e^{-0.833}$	42=
18F-43.	<u>61700 – 1.55x10⁵</u> Log(1590 + 341)	43=
18F-44.	$(785 + 919)^{1/3} + 1/{(366)^{-0.266}}$	44=
18F-45.(d	leg) {(-1.56x10 ⁻⁴)sin(-161°)} x {(-7.93x10 ⁻⁴)cos(-62.5°)}	45=
weighed [•]	"study" of Rodin's <i>The Thinker</i> sculpture was 14 in tall and 14 lbs. If the full sculpture was 73 in tall, how much does it	46= <u>lbs</u>
measured she meas mass of t	cockroach mass is proportional to the cube of its length. Ellen I some cockroach lengths and masses. Using units of (in,grams), ured (0.8, 0.5), (1.2, 1.6), (1.5, 3.5) and (2, 8). Estimate the ne largest cockroach, the giant burrowing cockroach, which is g	47= q
		···9

18F-48. For what value of x greater than 3 does $x^3 = e^{x}$? ------ 48=_____





18F-61. If the earth was the size of a period on this page, <u>650</u> μm, how far away would Pluto be? An average distance from Earth to Pluto is 5.92 billion km 61=ft (SD))
18F-62. The minimum number of unique games of chess is given by the Shannon Number, 10 ¹²⁰ . What is this raised to the power 353.854? 62=	
18F-63. Stan is a professional football punter. If he kicks a ball at 80 ft/s high into the air with a hang time of 4.6 s, what was the release angle? 63=deg	



18F-69. 1 + 0.8 + (0.8)² +
$$\frac{(0.8)^4}{8} - \frac{(0.8)^5}{15}$$
 ------ 69=____

18F-70. (rad)
$$\frac{\arctan\left\{e^{-(0.167)(0.745)}\sqrt{(50.2)/(84.9)}\right\}}{(-11.8)\sqrt{(100)(65.8)(95.2)}} \quad \dots \quad 70 = _$$

DO NOT DISTRIBUTE TO STUDENTS BEFORE OR DURING THE CONTEST!

18F-1 = -4.0718F-11 = -0.82918F-21 = -0.0527 $= -4.07 \times 10^{0}$ $= -8.29 \times 10^{-1}$ $= -5.27 \times 10^{-2}$ 18F-12 = -4.7418F-22 = 0.082718F-2 = 0.246 $= -4.74 \times 10^{0}$ $= 2.46 \times 10^{-1}$ $= 8.27 \times 10^{-2}$ = -1.88 18F-13 = 0.014618F-3 18F-23 = 0.520 $= 1.46 \times 10^{-2}$ $= 5.20 \times 10^{-1}$ $= -1.88 \times 10^{0}$ = -2.63 18F-14 = -421018F-24 = 0.21918F-4 $= -2.63 \times 10^{0}$ $= -4.21 \times 10^{3}$ $= 2.19 \times 10^{-1}$ 18F-25 = 25.918F-15 = -0.00052018F-5 = -0.000494 $= -4.94 \times 10^{-4}$ $= 2.59 \times 10^{1}$ $= -5.20 \times 10^{-4}$ 18F-6 = 209 18F-16 = 0.0402 $18F-26 = 1.44 \times 10^6$ $= 2.09 \times 10^2$ $= 4.02 \times 10^{-2}$ 18F-27 = 6 integer 18F-17 = 84.018F-7 = 104 $= 1.04 \times 10^{2}$ $= 8.40 \times 10^{1}$ 18F-28 = 12.0 $= 1.20 \times 10^{1}$ = 63.0 18F-8 18F-18 = \$3773.89 $= 6.30 \times 10^{1}$ $18F-29 = 4.74 \times 10^6$ 18F-19 = 47.4 $= 4.74 \times 10^{1}$ 18F-9 = 0.361 18F-30 = 11300 $= 3.61 \times 10^{-1}$ $= 1.13 \times 10^4$ 18F-20 = 41.1 $= 4.11 \times 10^{1}$ 18F-10 = 1800

 $= 1.80 \times 10^3$

= 990 (2SD) = 9.9x10 ²		= 67.7 = 6.77x10 ¹	= 0.336 = 3.36x10 ⁻¹	= 11.6 = 1.16x10 ¹	$= 26.9 \\ = 2.69 \times 10^{1}$	= 0.0477 = 4.77×10 ⁻²	II	= 2.49x10 ⁻³ = 2.47		= -6.39x10 ⁻⁵
18F-61	18F-62	18F-63	18F-64	18F-65	18F-66	18F-67	18F-68	18F-69		18F-70
$= 0.0624$ $= 6.24 \times 10^{-2}$	= -345 = -3.45x10 ²	= 0.00132	$= 1.32 \times 10^{-3}$	= -31.0 = -3.10x10 ¹	= 2.61x10 ⁻⁵	= -1.43 = -1.43x10 ⁰	= 5.09 = 5.09x10 ⁰	= -4140 = -4.14x10 ³	= 10.4 = 1.04x10 ¹	= 0.262 = 2.62×10 ⁻¹
18F-51	18F-52	18F-53	5	18F-54	18F-55	18F-56	18F-57	18F-58	18F-59	18F-60
$= -0.509$ $= -5.09 \times 10^{-1}$	= 0.000111 = 1.11×10 ⁻⁴	= -28400		= 16.8 = 1.68x10 ¹	= -1.86x10 ⁻⁸	$= 1980 \\ = 1.98 \times 10^3$	$= 36.2 \\ = 3.62 \times 10^{1}$	= 4.54 = 4.54x10 ⁰	= 4.15 = 4.15x10 ⁰	= 1.29 = 1.29×10 ⁰
18F-41	18F-42	18F-43	5	18F-44	18F-45	18F-46	18F-47	18F-48	18F-49	18F-50
$= 6.43 \\ = 6.43 \times 10^{0}$	= 47.3 = 4.73×10 ¹	= 90.6	$= 9.06 \times 10^{1}$	= -0.820 = -8.20x10 ⁻¹	= 0.00805 = 8.05x10 ⁻³	= 0.733 = 7.33x10 ⁻¹	= 16 integer	= 61.0 = 6.10x10 ¹	= 118 = 1.18x10 ²	$= 0.259$ $= 2.59 \times 10^{-1}$
18F-31	18F-32	18F-33		18F-34	18F-35	18F-36	18F-37	18F-38	18F-39	18F-40