

16. In still water, your small boat average 8 miles per hour. It takes you the same amount of time to travel 15 miles downstream, with the current, as 9 miles upstream, against the current. What is the rate of water's current?  
 A. 4 miles/hr  
 B. 3 miles/hr  
 C. 2 miles/hr  
 D. 5 miles/hr
17. The formula  $v = \sqrt{(2gh)}$  give the velocity, in feet per second, of an object when it falls  $h$  feet accelerated by gravity  $g$ , in feet per second squared. If  $g$  is approximately 32 feet per second squared, find how far an object has fallen if its velocity is 80 feet per second.  
 A. 80 feet  
 B. 100 feet  
 C. 70 feet  
 D. 90 feet
18. Determine the percentage uncertainty in the area of a square that is  $6.08 \pm 0.01$  m on a side.  
 A. 0.27%  
 B. 0.25%  
 C. 0.26%  
 D. 0.29%
19. It is the maximum number of vehicles, which have a reasonable expectation of passing over a given section of lane or roadway in one direction or in both directions during one hour under prevailing road and traffic conditions.  
 A. Flow Traffic  
 B. Road Capacity  
 C. Free Flow  
 D. Density
20. A company determines that in the production of  $x$  units of a commodity its revenue and cost functions are, respectively,  $R(x) = -3x^3 + 970x$  and  $C(x) = 2x^2 + 500$ . Find the maximum profit and maximum average cost.  
 A. Php 54.32  
 B. Php 25.43  
 C. Php 32.94  
 D. Php 43.25
21. A plate in the shape of an isosceles triangle 3 ft high and 4 ft wide is submerged vertically, base downward, with the base 5 ft below the surface of the water. Find the force caused by liquid pressure on one side of the plate.  
 A. 1764.9 lb  
 B. 1649.7 lb  
 C. 1497.6 lb  
 D. 1976.4 lb
22. Evaluate  $\int_0^{\pi/2} 2 \sin^6 x \cos^4 x \, dx$   
 A. 0.0368  
 B. 0.0437  
 C. 0.0234  
 D. 0.0184
23. You can design a web site in 30 hours. Your friend can design the same site in 20 hours. How long will it take to design the web site if you both works together?  
 A. 12  
 B. 15  
 C. 16  
 D. 18
24. Hooke's law states that the distance a spring stretches is directly proportional to the weight attached to the spring. If a 40-pound weight attached to the spring stretches the spring 5 inches, find the distance that a 65-pound weight attached to the spring stretches the spring.  
 A. 8.125 inches  
 B. 5.125 inches  
 C. 7.125 inches  
 D. 6.125 inches
25. An airplane involves three legs with two stopovers. The first leg is due east for 620 km; the second leg is southeast ( $45^\circ$ ) for 440 km; the third is ( $53^\circ$ ) south of west for 550 km. What is the total displacement?  
 A. 950 km,  $-46^\circ$  below the x-axis (south of east)  
 B. 975 km,  $-55^\circ$  below the x-axis (south of east)  
 C. 940 km,  $-57^\circ$  below the x-axis (south of east)  
 D. 960 km,  $-51^\circ$  below the x-axis (south of east)
26. A meteorologist is inflating a spherical balloon with helium gas. If the radius of the balloon is changing at a rate of 1.5 cm/sec, express the volume  $V$  of the balloon as a function of time  $t$  (in seconds).  
 A.  $V(t) = 1/5 \pi t^3$   
 B.  $V(t) = 4/3 \pi t^3$   
 C.  $V(t) = 3/7 \pi t^3$   
 D.  $V(t) = 9/2 \pi t^3$
27. A bus route on a city street is scheduled for 2-min headways. On the average, 7 passengers per bus board at a particular stop and 10 passengers alight. All boarding passengers use the front door and all alighting passengers use the back door. Fare collection is exact fare and farebox, but not single coin. Assume clearance time is 15 s, and that the maximum allowable probability of bus queuing is 1 percent. The stop is a near-side stop at an intersection with  $g/C$  ratio of 0.50. How many berths are required?  
 A. 2  
 B. 3  
 C. 4  
 D. 5
28. A contractor has 50 men of the same capacity at work on a job. They can complete the job in 30 days, the working day being 8 hours, but the contract expire in 20 days. He decides to put 20 additional men. If all the men get P3.00 per day for a full or part day and if the liquidated damages are P100 for every full or part day, he requires over his contract. How many days could he finish the job.  
 A. 22  
 B. 15  
 C. 20  
 D. 18
29. Halley's Comet has an elliptical orbit with eccentricity = 0.967. The closest the Halley's comet comes to the sun is 0.587 AU. Approximate the maximum distance of the comet from the sun to the nearest 0.1 AU.  
 A. 25.0 AU  
 B. 53.0 AU  
 C. 17.2 AU  
 D. 17.8 AU
30. Each plane can carry no more than 80,000 pounds. The bottled water weighs 20 pounds per container and each medical kit weighs 10 pounds. If  $x$  represents the number of bottles of water to be shipped and  $y$  represents the number of medical kits, write an inequality that models this constraint.  
 A.  $10x - 20y \leq 80,000$   
 B.  $10x + 20y \leq 80,000$   
 C.  $20x - 10y \leq 80,000$   
 D.  $20x + 10y \leq 80,000$
31. The areas of two similar polygons are 80 and 5. If the side of the smaller polygon has a length 2, find the length of the corresponding side a larger polygon.  
 A. 10  
 B. 12  
 C. 8  
 D. 14
32. A coin is so unbalanced that you are likely to get two heads in two successive throws as you are to get tails in one. What is the probability of getting heads in a single throw?  
 A. 0.168  
 B. 0.618  
 C. 0.681  
 D. 0.816

# Civil Engineering Practice Problems

**Jessica J Manson**



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subjects I studied hard and after passing the exam I decided to prepare a series of civil and structural PM questions along with their step by step solution based on my experiences For PE exam preparation you need tools other than your daily experience You will be examined for a variety of knowledge codes and standards Good resources and classes will equip you for the morning exam The only way you can pass the exam is to use your time efficiently as well as a good score for the afternoon PM part The following problems have been prepared for the candidates who have civil structural background and are only for PM practices purposes Some of the problems are very comprehensive and it may cover multiple questions However for training purposes it is included in one question My emphasis is to show what you need to focus on and never underestimate any point that you may think it would not be question in exam I hope this book can help you even a little bit for achieving your great goal All the best

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