MATH 1314 FINAL EXAM REVIEW

Solve the following equations and inequalities:

1. $5 + \sqrt{2x+1} = 8$

2. $2x^2 = x + 5$

3. $|3x+1| = 5$

4. $|4x-3| \geq 9$

5. $|2x+3| < 5$

6. $2 + \sqrt{12-2x} = x$

7. $5^x = 50$

8. $\log 2x - \log(x-2) = 1$

9. $x^4 - 12x^2 + 27 = 0$

10. $x^2 - 2x - 8 > 0$

11. $\dfrac{x-3}{x+1} \leq 0$

12. $2x^{\frac{2}{5}} - 5x^{\frac{1}{5}} - 3 = 0$

13. $(x+3)^{\frac{2}{3}} = 8$

14. $\dfrac{1}{x-2} = \dfrac{3}{x+2} - \dfrac{6x}{x^2-4}$

15. $3x^2 = 36$

16. $6e^{3-x} = 25$

17. $\log_5(z-3) = 2$

18. Solve for f : $d = \dfrac{fi}{f+w}$

19. Bill invested some money at 5% annual interest and Janette invested some at 7%. If their combined interest was $310 on a total investment of $5000, how much did Bill invest?

20. The height of an object thrown upward with an initial velocity of 32 feet per second is given by the formula $h = -16t^2 + 32t$, where t is the time in seconds. How long will it take the object to reach 16 feet?

21. The demand equation for a certain product is given by $p = 40 - \sqrt{x-1}$ where x is the number of units demanded per day and p is the price per unit. Find the demand if the price is set at $34.70.

22. A machine shop buys a lathe for $1970 and expects it to last for ten years. It can then be sold as scrap for a salvage value of $270. If y is the value of the lathe after x years of use, and y and x are related by the equation of a line, a) find the equation of the line and b) find the value of the lathe after 2.5 years.

23. A total of $12,000 is invested at an annual percentage rate of 9%. Find the accumulated amount after 5 years if it is compounded a) quarterly and b) continuously.

24. The size p of a certain insect population at time t (in days) obeys the equation $p = 500e^{0.02t}$. After how many days will the population reach 2000?

25. A formula for the limiting magnitude L of a telescope, that is, the magnitude of the dimmest star that it can be used to view is given by $L = 9 + 5.1 \log d$, where d is the diameter (in inches) of the lens. What diameter is required to view a star of magnitude 14?

26. Suppose that the manufacturer of a gas clothes dryer has found that, when the unit price is p dollars, the revenue R (in dollars) is $R = -4p^2 + 4000p$. What unit price should be established for the dryer to maximum revenue? What is the maximum revenue?

27. Find the equation for the line passing through the points $(4,3)$ and $(-4,-4)$.

28. Find the equation of the line perpendicular to the line $y = \frac{1}{2}x + 4$ and passing through $(1,-2)$.

29. Give the center and the radius of $(x+1)^2 + (y-2)^2 = 9$ and graph the circle.

Math 1314 Final Review

Emilie Sanchez

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