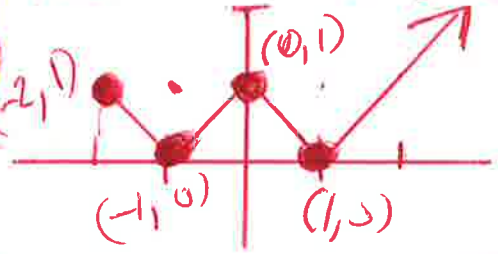
Math 1314 Review Final

33 Questions PART I

11-20-19
11-26-19

11-24-19
11-25-19
12-11-19

1. $2x^2 - 5x - 4 = 0$ $x =$
2. $\sqrt{3x+25} = x+7$ $x =$
3. $f(x) = 2x^2 + 3x + 6$, $g(x) = 2x - 11$ $(f-g)(x) =$
4. $f(x) = -2x + 5$, $g(x) = 2x - 3$ $(f \cdot g)(-1) =$
5. $f(x) = x^2 + 6x + 3$, $\frac{f(x+4) - f(x)}{4} =$
6. $f(x) = |x - 4| - 5$ graph
7. $f(x) = 2x^2 + 3$, $g(x) = 3x - 11$ $(g \circ f)(x) =$
8. 

find domain and range
9. $f(x) = \sqrt{2x-4}$ find domain
10. $f(x) = \begin{cases} 2x+1 & \text{if } x < 1 \\ -2x-1 & \text{if } x \geq 1 \end{cases}$ graph
11. $f(x) = x^2 - 4x + 3$ graph (Find vertex, x and y-intercept)
12. $f(x) = -2x^2 - 8x - 6$ graph (Find vertex, x and y-intercept)
13. $9x^3 + x^2 - 36x - 4 = 0$ use synthetic division $x =$
14. $f(x) = \frac{4x^2 - x - 11}{x^2 + 3x + 2}$ find vertical and horizontal asymptotes
15. $f(x) = \frac{4x^2 + 3x - 77}{x+1}$ find the oblique asymptote
16. $f(x) = 2x - 5$ find the inverse $f^{-1}(x)$
17. $9^{x+1} = 81^{x+11}$ $x =$

Final Exam Review

understands

33 Questions

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33 Questions

Math 1314 Final Review

Math 13/14 Review Final Part 2 33 Questions

Final Exam Review

18. $\log_2(x+500) = 3$ (work on top) $x =$

19. $A = P(1+\frac{r}{N})^{Nt}$ $P = \$10{,}000$, $r = 9.3\%$, $N = 12$, $t = 6$ $A =$

20. $\ln(x) + \ln(x-1) = \ln(12)$ $x =$

21. $100e^{.10x} = 200$ $x =$

22. $f(x) = \ln(-2x+10)$ Find domain

23. $3x + 2y = 5$
$x - 7y = -6$
$(x, y) = (\ ,\ )$

24. $x + y - z = 1$
$3x - 2y + z = 2$
$11x - 2y - 3z = 6$
$(x, y, z) = (\ ,\ ,\ )$

25. $\sum_{x=1}^{400}(2x)$ Sum =

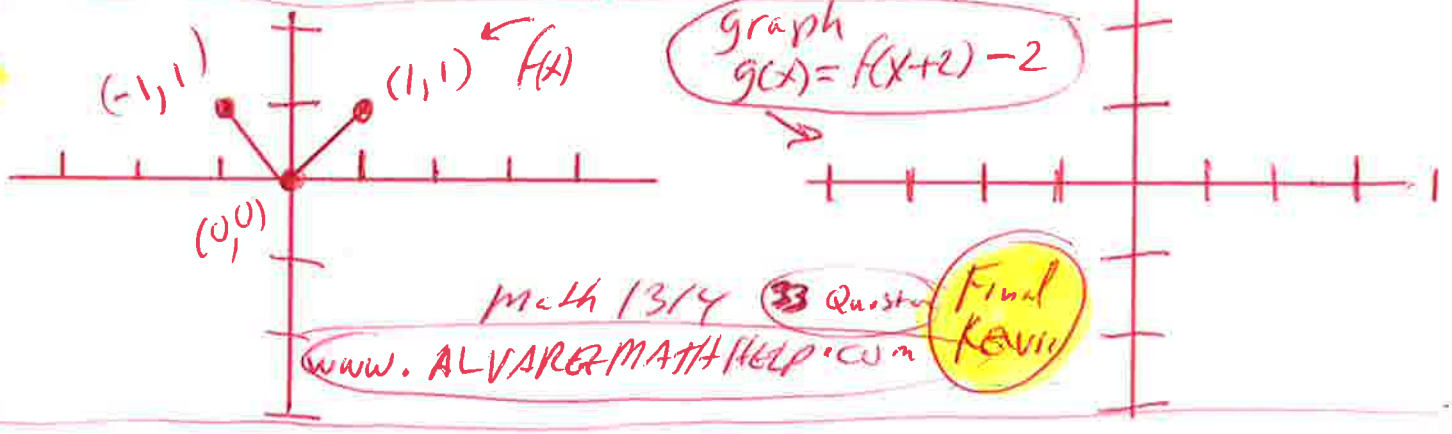
26. $(x+2)^3$ expand = use binomial theorem or other method

27. Find distance between $(-5, -7)$ $(-1, -4)$

28. Find midpoint $(-5, -7)$ $(-1, -4)$

29. $x^2 + y^2 - 6x - 4y - 3 = 0$ Find center, radius, and graph

30. Graph $f(x) = x^2$ and $g(x) = (x+2)^2 - 9$

31. 

(32) $f(x) = \$1000 \log(10 - (\frac{9}{360})(x))$ (Balance on Credit Card (what you owe) Part 3)

find

$f(0) =$

$f(50) =$

$f(120) =$

$f(240) =$

$f(360) =$

FINAL EXAM REVIEW

(33) Graph $f(x) = \$1000 \log(10 - (\frac{9}{360})(x))$ ← Balance on credit card (what you owe)

$g(x) = \$21x$ ← (min payment per month)

window

x-min = 0

x-max = 360

y-min = -100

y-max = 1200