Unit 4 Review

1. 2i

2. -2iv5

3. $i\sqrt{\frac{2}{5}}$

4. <u>3</u>i

5. 9-3i

6. -2-2i

7. 22+21i

8. - 1

9. -i

10.1

11. -i

12. (x+8i)(x-8i)

 $[3.(3x-4)(9x^2+12x+16)$

14. (1+84)(1-84+6442)

15. (4x+1)2

16. (7x-2)(X+2)(x-2)

17. NO

18. Remainder = -7

19. Quotient = $5x^3+6$

20. $3x+9+\frac{25x-7}{x^2-3x+2}$

21. $2X+3+\frac{-8X+10}{X^2+2X-1}$

worked solutions
are after the Quick
answers on the first two pages

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Unit 4 Review - Problem Attic Questions

Unit 4 Review - Problem Attic Questions			
1. Answer: Objective: Points:	D 2A.4.0	14. Answer: Objective: Points:	B 4.01 1
2. Answer: Points: 3. Answer:	D 1	15. Answer:	Example answer: $f(x)$ has a degree of 3 since the leading term is $4x^3$. As x gets larger and larger in the positive direction, $f(x)$ gets larger and larger in the positive direction. As x gets larger and larger in the negative direction, $f(x)$ gets larger and larger in the negative direction.
Objective: Points: 4.	2A.3.0 1	Points:	
Answer: Points:	A 1	16. Answer:	p(x) = (x-4)(x-2)(x+3);
5. Answer: Points: 6. Answer:	B 1		24
Points: 7. Answer: Points:	1 C 1	Points:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
8. Answer: Objective: Points:	B 3.12 1	Answer: Points: 18. Answer:	Example answer: Because $(x + 9)$ is a
9. Answer: Points:	В 1	Points:	factor, the remainder would have to be 0.
10. Answer: Points:	C 1	Answer: Points: 20.	4,6 1
11. Answer: Objective: Points:	A 1.2.4 1	Answer; Points:	(x+5), $(x+2)$, $(x-1)$, $(x-6)$
12. Answer: Objective: Points:	D III.A 1		
13. Answer: Points:	B 1		