

SM2 unit 4 test review answers

1. $26x^2 + 12x - 24$

2. $41u^3 - 32u^2 - 3u$

3. $28x^3 - 5x^2 - 21$

4. $26x^6 + 22x^5 - 30x^4$

5. $-28y^4 + 63y^3 - 56y^2$

6. $x^2 + 5x - 84$

7. $144r^2 - 216r + 81$

8. $18z^2 - 53z - 35$

9. $x - 12$ domain = $(-\infty, -\frac{4}{5}) \cup (-\frac{4}{5}, \infty)$

10. $\frac{1}{x-6}$ domain = $(-\infty, -\frac{1}{4}) \cup (-\frac{1}{4}, 6) \cup (6, \infty)$

11. $h(x) = -x^2 - 17x + 69$

12. $h(x) = 36x^2 - 108x + 81$

13. $h(x) = -6x^3 + 15x^2 + 243x - 378$

14. $h(x) = \frac{-6x+9}{(x-7)(x+6)}$ domain = $(-\infty, -6) \cup (-6, 7) \cup (7, \infty)$

15. 322

16. -10

17. $9i$

18. $-2i\sqrt{15}$

19. $-9i\sqrt{5}$

20. $2i\sqrt{30}$

21. 132

22. $8 + 9i$

23. $10 - 5i$

24. $24 + 36i$

25. $51 + 57i$

26. $45 + 28i$