

SM3 unit 1 test review answers

1.

Polynomial	Standard Form Circle the leading coefficient	# Terms	Degree	Coefficient(s) Circle the constant.
$3x^2 - 7 + 6x$	$3x^2 + 6x - 7$	3	2	3, 6, -7
$2x + 6x^3$	$6x^3 + 2x$	2	3	6, 2

2. $4x^2 - 6x - 10$

3. $7x^2 + 9x - 2$

4. $x^3 + 7x^2 - 6x + 28$

5. $12t^2 - 11t + 12$

6. $x^2 - 6x - 27$

7. $-6x^2 + 6x - 25$

8. $9y^3 + 49y^2 - 33y - 18$

9. $x^2 - 9$

10. $2x - 1 + \frac{5}{3x-2}$

11. $2x^2 - x + 1 - \frac{5}{x+2}$

12. $y = \frac{6}{7}x - 5$

13. $y = \frac{1}{2}x + 8$

14. $y = \frac{1}{2}x^2 - 5$

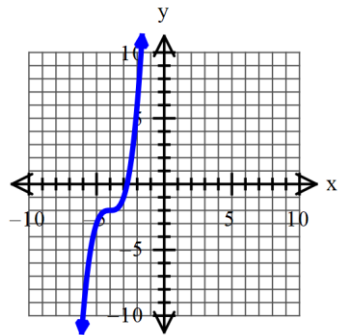
15. $y = -17$

16. $f(-2) = 13$

17. $f(-4) = 54$

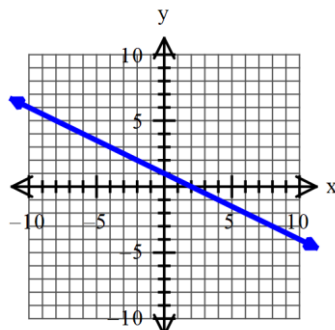
18.

x	f(x)
-6	-10
-5	-3
-4	-2
-3	-1
-2	6



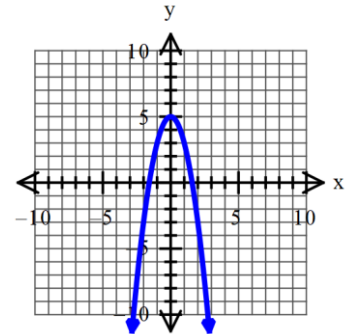
19.

x	f(x)
-4	3
-2	2
0	1
2	0
4	-1



20.

x	y
-2	-3
-1	3
0	5
1	3
2	-3



21. $h(x) = x^2 - 5x + 15$

22. $h(x) = \frac{-5x+6}{x^2+9}$

23. $h(x) = -x^2 - 5x - 3$

24. $h(x) = -5x^3 + 6x^2 - 45x - 54$

25. linear, c

26. cubic, a

27. quadratic, d

28. cubic, b

29. linear, e

30. $5x^2 - 10x - 4$