

MPS22-HW-11

248: 4, 5, 9, 10, 17

203: 2, 8, 14

198: 60

197: 28

190: 36

182: 29

Select the correct number that corresponds to the right answer. There are more answers than questions. **The answers may be repeated.**

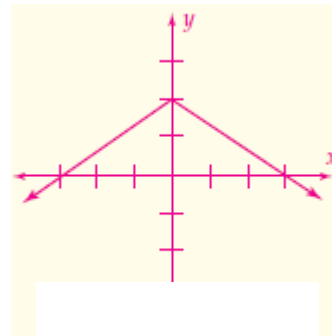
1. Not a polynomial
2. It is a polynomial with a leading coefficient =7; constant term = 1; degree = x
3. Approaches negative infinity
4. Approaches positive infinity
5. Approaches one
6. Shifts the graph 4 units to the right and one unit upward; reflects across the y-axis and compresses it vertically by 3
7. Yes, they are equal to x
8. No, they are not equal to x
9. $3x^3-2x^2-4x+1$; 7
10. It is a polynomial with a leading coefficient=1;constant term=-3; degree = 2
11. Shifts the graph 4 units to the right and one unit upward; reflects across the x-axis and stretches it vertically by 3
12. $4x^2+5x+11$;29
13. $\frac{4+\sqrt{28}}{2}$, $\frac{4-\sqrt{28}}{2}$
14. 0.8,-2,5,-12.5,-31.25,78.125,-195.3125,-488.28125
15. $3x^3-3x^2+5x-11$;12
16. 0.8,-2,5,-12.5,31.25,-78.125,195.3125,-488.28125

17. $d(t) =$

$$\sqrt{(120 - 16t^2)^2 + 40^2}; 1.57$$

18. **a. $d(t) = \sqrt{(120 - 16t^2)^2 + 40^2}$**
b. approximately 1.56879 seconds

19.



20.

