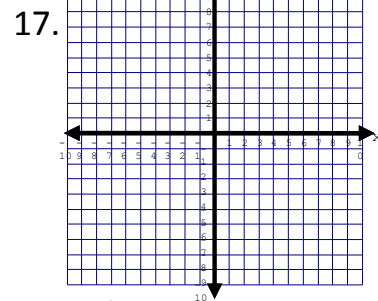
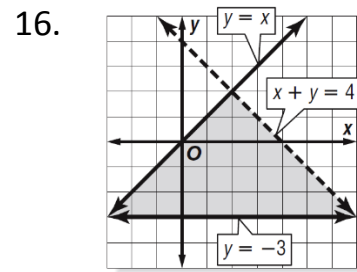


## KEY to T2 Rev A

1. Base: 5 ft; Height: 12 ft.
2. 320 L
3. plane: 450 mph; wind: 50 mph
4. 5 sec.; 100 ft. high
5. arithmetic;  $a_n = 6n - 3$
6. geometric;  $a_n = 128 \left(\frac{3}{4}\right)^{n-1}$
7. a.  $x = 3$   
b.  $n = 8$
8. a. 4  
b. 125
9.  $y = 2x - 20$
10.  $y = -1$
11. (3, 9)
12. No solution
13. Infinitely many solutions

## KEY to T2 Rev B

14. (7, -1)
15. (6, 2)



18. a. decay; 40%      b. growth; 3.5%

19.  $y = 10,000(0.98)^t$

20. 144

21.  $\frac{x^3 y^3 z}{2}$       22.  $-\frac{16}{x^6}$       23.  $\frac{12x^4}{y^{16}}$

24. a. degree 2 (quadratic) trinomial  
b. degree 0 (constant) monomial  
c. degree 3 (cubic) binomial  
d. degree 1 (linear) binomial

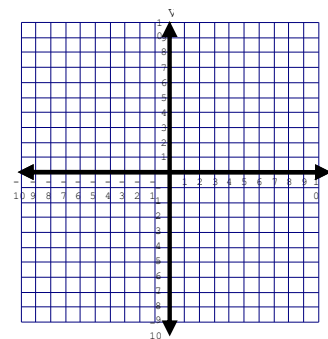
25.  $8a^2 + 2a - 3$

26.  $x^3 - 8$

27.  $64a^2 - 4b^2$

28.  $\frac{1}{16}x^2 + 2x + 16$

29.



30. The maximum is 29.