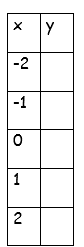
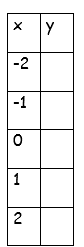
Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Algebra ws 8.7

Evaluate. No decimals allowed. Show work!

1. 3()4 2. 8()-2 3. Y = 4x use the domain:

Graph each function.

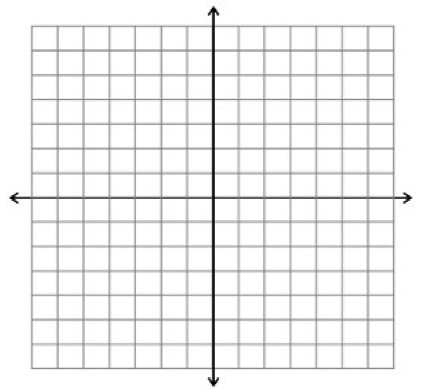
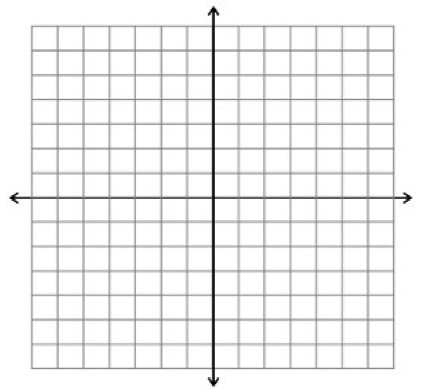
4. y = (2)x 5. Y = 3x

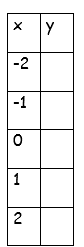
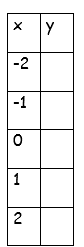
A. growth/decay? \_\_\_\_\_\_\_\_\_\_\_ A. growth/decay? \_\_\_\_\_\_\_\_\_\_\_

B. asymptote \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B. asymptote \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C. domain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ C. domain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D. range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ D. range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

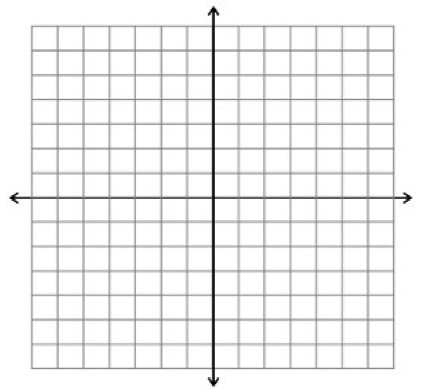
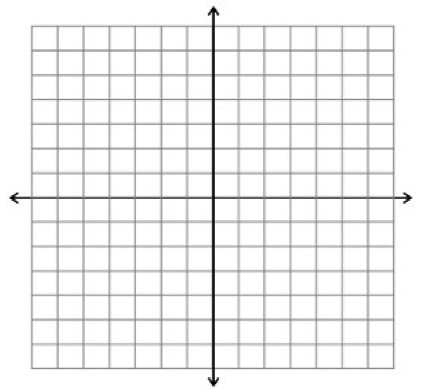
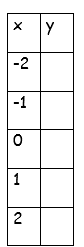


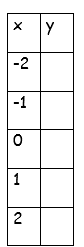
6. y = -2(2)x 7. Y = -3(x

A. growth/decay? \_\_\_\_\_\_\_\_\_\_\_ A. growth/decay? \_\_\_\_\_\_\_\_\_\_\_

B. asymptote \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B. asymptote \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C. domain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ C. domain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

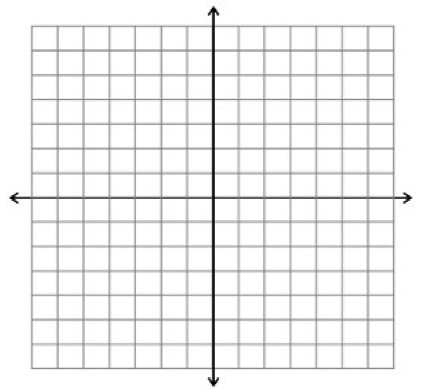
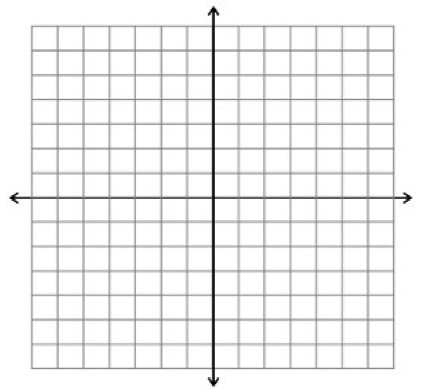
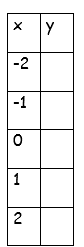
D. range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ D. range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

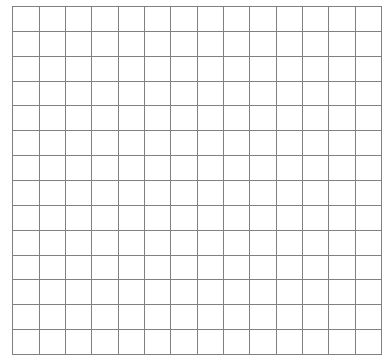
8. y = 2()x 9. Y = 2x y = x

A. growth/decay? \_\_\_\_\_\_\_\_\_\_\_

B. asymptote \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ intersection \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C. domain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D. range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. An investment of $2000 doubles every 8 years.

A. write an exponential function: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

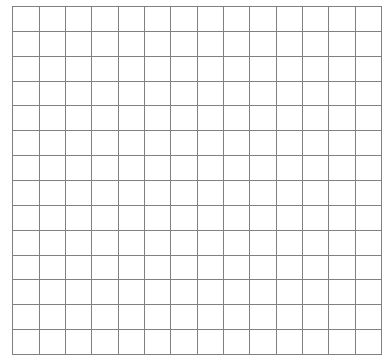
B. graph this trend over the next 40 years

C. domain \_\_\_\_\_\_\_\_\_\_

range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. A car depreciates in value each year. A brand new Explorer has a depreciation model of y = 40000(0.91)x

\_\_\_\_\_Which statement is FALSE?

1.  The car depreciates by 91% each year
2. The car depreciates by 9% each year
3. The decay factor is 0.91

Graph the values over 10 years.

Domain \_\_\_\_\_\_\_\_\_ Range \_\_\_\_\_\_\_