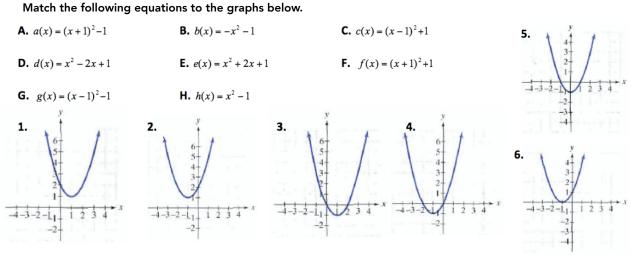
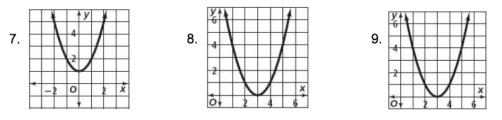
LG 5/6 QUADRATIC FUNCTIONS WORKSHEET #1

Name _



Identify the vertex and the axis of symmetry of each parabola.



Determine whether each function is linear or quadratic. Identify the quadratic, linear, and constant terms.

- 10. y = (x-2)(x+4) 11. y = 3x(x+5) 12. $y = 5x(x-5) 5x^2$
- 13. f(x) = 7(x-2) + 5(3x) 14. $f(x) = 3x^2 (4x 8)$ 15. y = 3x(x-1) (3x + 7)
- 16. $y = 3x^2 12$ 17. f(x) = (2x 3)(x + 2) 18. y = 3x 5

ANSWERS:

1. C **2.** F **3.** G **4.** A **5.** H **6.** E **7.** (0, 1); x = 0 **8.** (3, 0); x = 3 **9.** (-1, -2); x = -1**10.** quadratic; quad: x^2 ; lin: 2x; const: -8 **11.** quadratic; quad: $3x^2$; lin: 15x; const: none **12.** linear; quad: none; lin: -25x; const: none **13.** linear; quad: none; lin: 22x; const: -14 **14.** quadratic; quad: $3x^2$; lin: -4x; const: 8 **15.** quadratic; quad: $3x^2$; lin: -6x; const: -7**16.** quadratic; quad: $3x^2$; lin: none; const: -12 **17.** quadratic; quad: $2x^2$; lin: x; const: -6 **18.** linear; quad: none; lin: 3x; const: -5