Section 10.4 Worksheet

Name: _____

Solve the equation.

1. $(x+2)(x+5)=0$

2. $(t+3)(t-3)=0$

3. $x(x-8)=0$

4. $(4z-3)^2=0$

5. $(4m-1)(8m+3)=0$

6. $(y+5)^2=0$

7. $x(x+6)(x+5)=0$

8. $(n-8)^2(5n+25)=0$

9. $4(7t+14)(t+5)^2=0$

10. $(c+6)(2c+6)(3c+6)=0$

Graph the following quadratics in factored form. Identify the graph's x-intercepts, axis of symmetry (AOS), vertex, and tell whether the graph opens up or down.

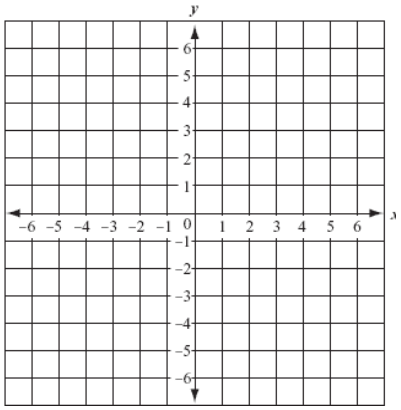
11. $y = (x - 2)(x - 6)$

x-int: _____

AOS: _____

vertex: _____

opens: _____



x					
y					

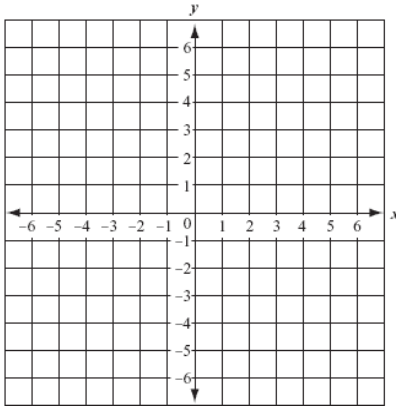
12. $y = (x + 4)(x + 3)$

x-int: _____

AOS: _____

vertex: _____

opens: _____



x					
y					

REVIEW:

Find the sum or difference.

13. $(-2x^3 + x^2 - x + 9) - (-2x^2 + x - 6)$

14. $(2x^3 - x + 15) + (3x^3 - x - 9)$

Find the product.

15. $(4x + 3)(2x - 5)$

16. $(2x + 4)^2$