Lesson 4.4 Worksheet

Name: _____

Factor the expression.

1.) $6p^2 + 5p + 1$

2.) $15x^2 - 2x - 8$

3.) $14m^2 + m - 3$

4.) $15x^2 + 7x - 2$

5.) $4r^2 - 25$

6.) $49n^2 - 16$

7.) $49x^2 + 70x + 25$

8.) $9p^2 - 12p + 4$

9.) $12x^2 - 4x - 40$

10.) $32v^2 - 2$

Solve the equation.

11.) $4x^2 - 19x - 5 = 0$

12.) $11x^2 - 19x - 6 = 0$

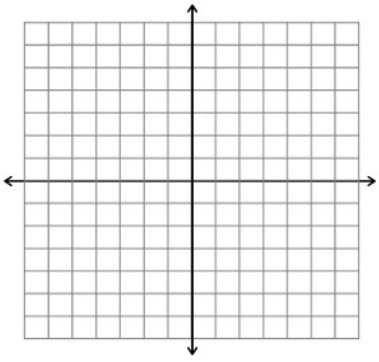
Find the zeros of the function by rewriting the function in intercept form.

13.) $y = 45n^2 + 10n$

14.) $f(x) = 4p^2 + 12p + 9$

Graph the quadratic function and identify its features (fill in the blanks).

15.) $y = \frac{1}{3}x^2 + 2x - 1$



AOS: _____

vertex: _____

y-int: _____

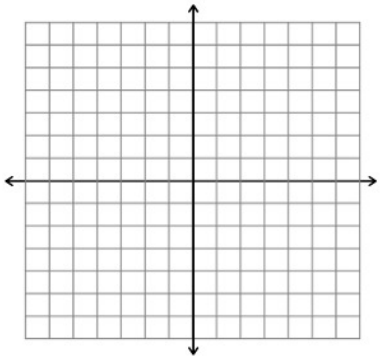
opens: _____

max./min. value: _____

x					
y					

work:

16.) $y = (x + 2)(x - 4)$



AOS: _____

vertex: _____

y-int: _____

opens: _____

max./min. value: _____

y-axis by 2

x					
y					

work: