

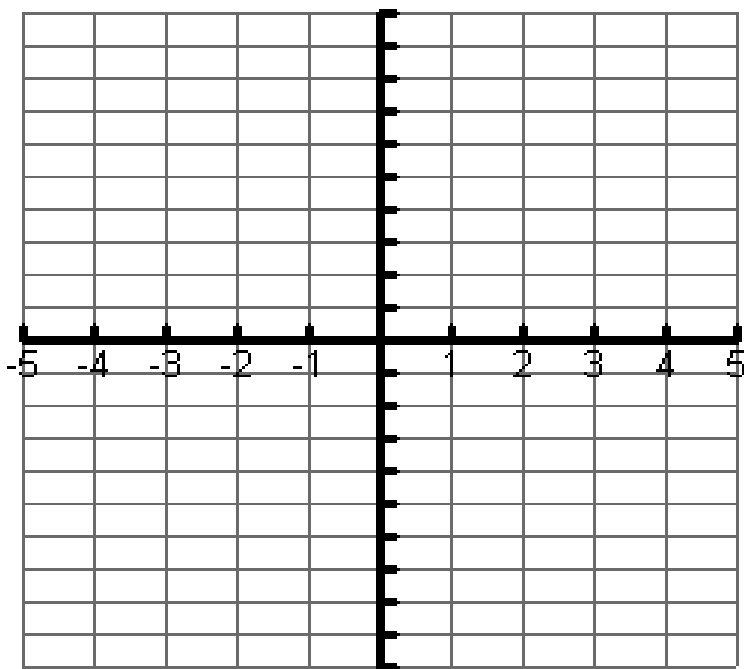
Algebra 2 - Unit 3A
Polynomial Graphing and Characteristics #2

Name _____

Factor and solve the function. Graph the polynomial using the calculator labeling all distinct points for the graph. Then complete the characteristics of the graphs.

1. $y = (x^2 + 8)(12x^2 - 11x - 15)$ factor further?

Factored Form: $y =$ _____



Domain:

Range:

Zeros:

x-int:

y-int:

Absolute Max:

Absolute Min:

Relative Max:

Relative Min:

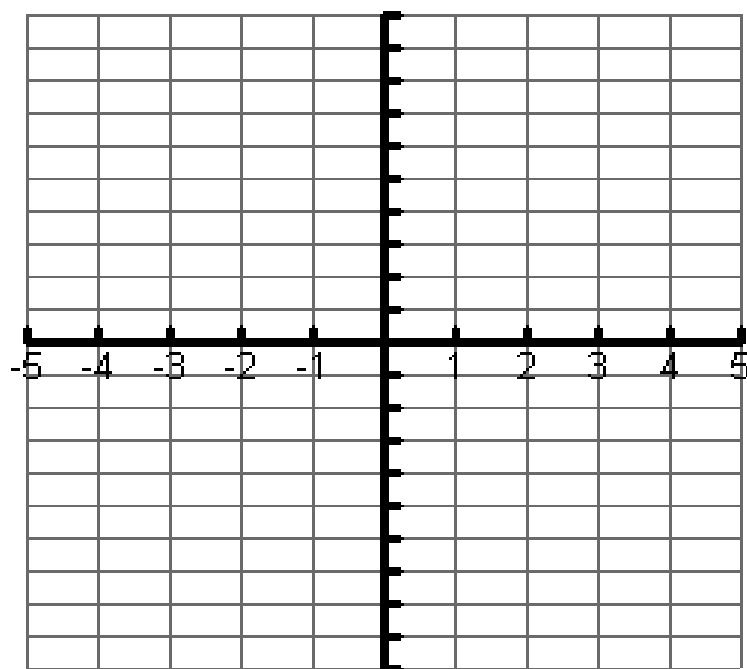
Int of Inc:

Int of Dec:

end behaviors:

2. $f(x) = -4x^5 + 18x^3 - 4x^2 + 18$

Factored Form: _____



Domain:

Range:

Zeros:

x-int:

y-int:

Absolute Max:

Absolute Min:

Relative Max:

Relative Min:

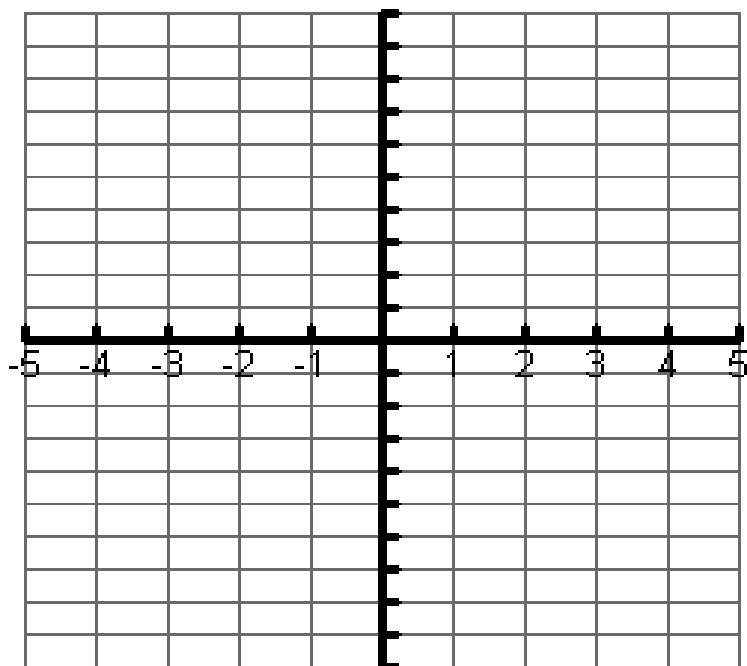
Int of Inc:

Int of Dec:

end behaviors:

3. $y = 2(x + 1)(4x^2 + 3x - 1)$ factor further?

Factored Form: _____



Domain:

Range:

Zeros:

x-int:

y-int:

Absolute Max:

Absolute Min:

Relative Max:

Relative Min:

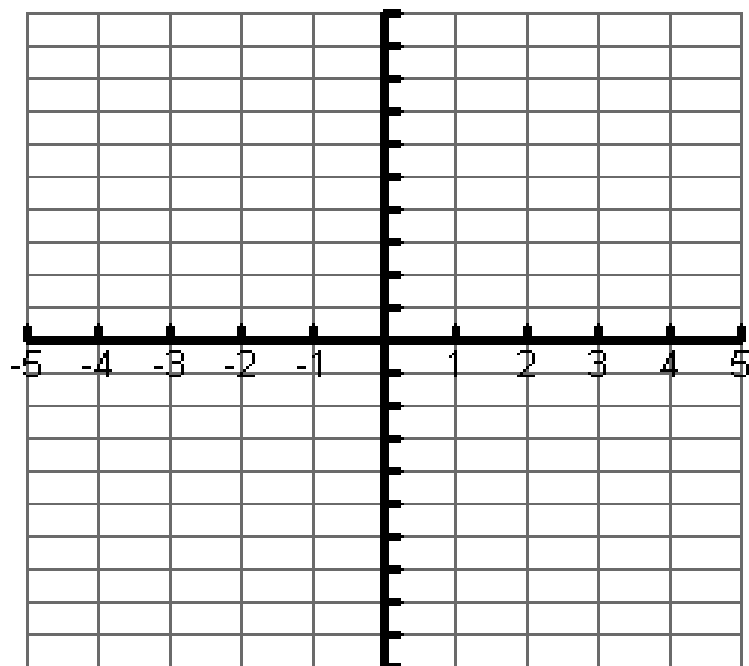
Int of Inc:

Int of Dec:

end behaviors:

4. $f(x) = -4x^4 + 6x^3 + 28x^2$

Factored Form: _____



Domain:

Range:

Zeros:

x-int:

y-int:

Absolute Max:

Absolute Min:

Relative Max:

Relative Min:

Int of Inc:

Int of Dec:

end behaviors: