

Math 3 Advanced

5.4 Practice part 1 - KEY

Determine the domain intervals for the local extrema of a polynomial function given in factored form.

1. maxima: $(-3, 1)$
minima: $(1, 6)$

2. maxima: $(-5, -2)$
minima: $(-2, 4)$

3. maxima: $(-3, 11)$
minima: $(-7, -3)$

4. maxima: $(7, 9)$
minima: $(2, 7)$

5. maxima: $(-4, -1)$
minima: $[-4] ; (-1, 5)$

6. maxima: $(-2, 3)$
minima: $(-7, -2) ; [3]$

7. maxima: $(-8, 1) ; [7]$
minima: $(1, 7)$

8. maxima: $(-5, 3) ; (3, 11)$
minima: $[3]$

9. maxima: $(-5, -1)$
minima: $[-5] ; [-1]$

10. maxima: $(2, 8)$
minima: $[2] ; [8]$

11. maxima: $[5] ; [12]$
minima: $(5, 12)$

12. maxima: $[-9] ; [1]$
minima: $(-9, 1)$