

Math 3 Advanced

5.4 Practice part 2 - KEY

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

1. maxima: $(-3, 0)$
minima: $[0]$

2. maxima: $[0]$
minima: $(0, 1)$

3. maxima: $[0]$
minima: $(0, 5)$

4. maxima: $(-2, 0)$
minima: $[0]$

5. maxima: $(-4, 0)$
minima: $(0, \frac{3}{2})$

6. maxima: $(-1, 0)$
minima: $(0, \frac{1}{4})$

7. maxima: $(-5, 0)$
minima: $(0, \frac{2}{3})$

8. maxima: $(-2, 0)$
minima: $(0, \frac{1}{5})$

9. maxima: $(-\sqrt{2}, \sqrt{2})$
minima: $(\sqrt{2}, 3)$

10. maxima: $(-\sqrt{5}, -1)$
minima: $(-1, \sqrt{5})$

11. maxima: $(-6, -\sqrt{3})$
minima: $(-\sqrt{3}, \sqrt{3})$

12. maxima: $(-\sqrt{6}, \sqrt{6})$
minima: $(\sqrt{6}, 4)$