Derivative Applications

Critical & Extreme Points

Global Extreme Points

1. *global extreme points* $4 - x^2$

2. *global extreme points* $x^2 - 2x - 3$

3. *global extreme points* $x^3 - 3x + 1$

4. *global extreme points* $x^2 - 6x + 8$

5. *global extreme points* $x^3 - 3x$

6. *global extreme points* $(x + 5)^2$

7. *global extreme points* $\dfrac{1}{x^2} + \dfrac{1}{x}$

8. *global extreme points* $\dfrac{2x^2 + 6}{x}$

9. *global extreme points* $\dfrac{1}{9 + x^2}$

10. *global extreme points* $\dfrac{3}{x^3 - 1}$

Answers

Derivative Applications

Critical & Extreme Points

Global Extreme Points

1. Global Maximum $\left(0,4\right)$

2. Global Minimum $\left(1,-4\right)$

3. None

4. Global Minimum $\left(3,-1\right)$

5. None

6. Global Minimum $\left(-5,0\right)$

7. Global Minimum $\left(-2,-\dfrac{1}{4}\right)$

8. None

9. Global Maximum $\left(0,\dfrac{1}{9}\right)$

10. None