

Derivative Applications**Critical & Extreme Points****Critical Points**

1. *critical points* $4x^2 - x - 3$

2. *critical points* $x^3 - x^2 - x + 1$

3. *critical points* $-3x^2$

4. *critical points* $x^2 - 36x - 20$

5. *critical points* x^4

6. *critical points* $x^3 - 3x + 2$

7. *critical points* $\sqrt{x - 4}$

8. *critical points* $\sqrt[3]{x}$

9. *critical points* $\sqrt{x^2 + 1}$

10. *critical points* $\sqrt{x} + 3$

Answers

Derivative Applications

Critical & Extreme Points

Critical Points

1. $x = \frac{1}{8}$

2. $x = -\frac{1}{3}, x = 1$

3. $x = 0$

4. $x = 18$

5. $x = 0$

6. $x = -1, x = 1$

7. $x = 4$

8. $x = 0$

9. $x = 0$

10. $x = 0$