

1.) Given $f(x) = -4x^2 - 6x + 3$ and $g(x) = 2x - 3$, find ...

a.) $f(-3) =$

b.) $g(4m) =$

c.) $f(t - 3) =$

d.) $3(g(2t)) =$

e.) $f(3t - 2) - 2f(3t) =$

Find ALL zeros of the given function.

2.) $f(x) = x^3 + 4x^2 + 14x + 20$

Number of Positive Real Zeros	Number of Negative Real Zeros	Number of Imaginary Zeros

Total # of Zeros: _____

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

Number of Positive Real Zeros	Number of Negative Real Zeros	Number of Imaginary Zeros

Total # of Zeros: _____

4.) $p(x) = x^4 - 3x^3 + 3x - 4$

Degree: _____

Even / Odd: _____

L.C.: _____

Zeros: _____

End Behavior:

as $x \rightarrow \infty, p(x) \rightarrow$ _____

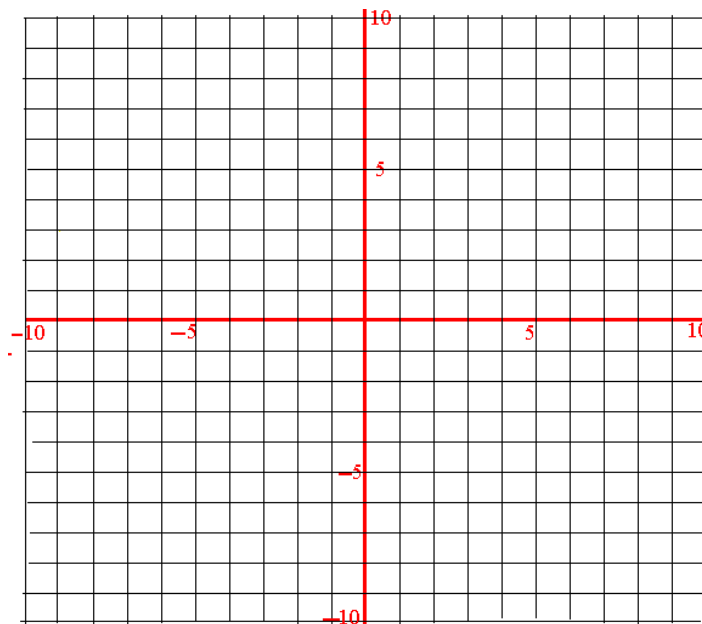
as $x \rightarrow -\infty, p(x) \rightarrow$ _____

R. Max: _____

R. Min: _____

Increasing Intervals: _____

Decreasing Intervals: _____



x				
p(x)				