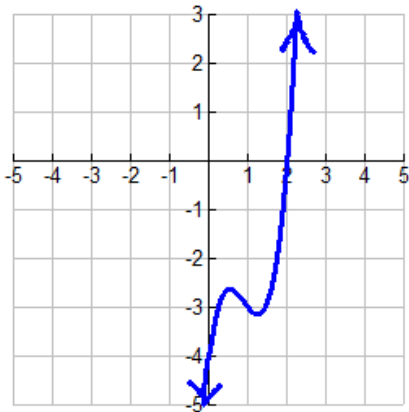


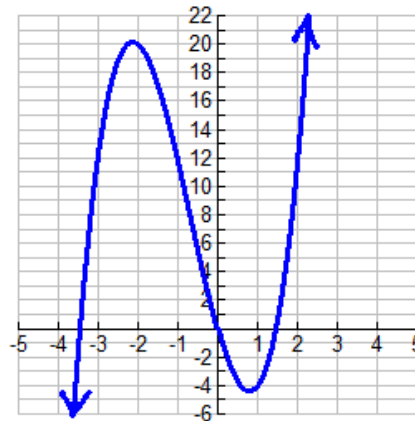
Directions: Use the given polynomial $P(x)$ and its graph to find ALL the zeros for $P(x)$. Show work!

1.) $P(x) = 3x^3 - 8x^2 + 6x - 4$



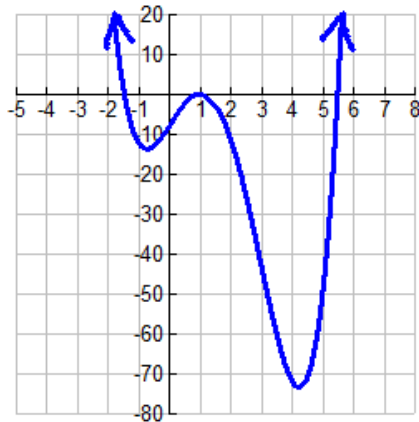
All zeros = _____

2.) $P(x) = 2x^3 + 4x^2 - 10x$



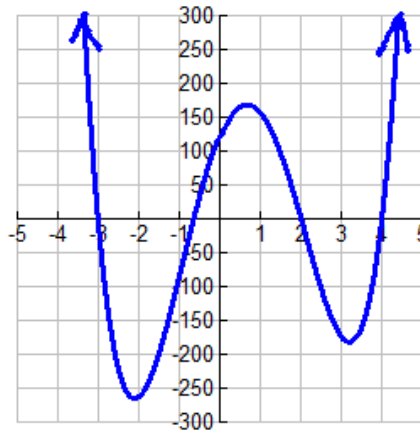
All zeros = _____

3.) $P(x) = x^4 - 6x^3 + x^2 + 12x - 8$



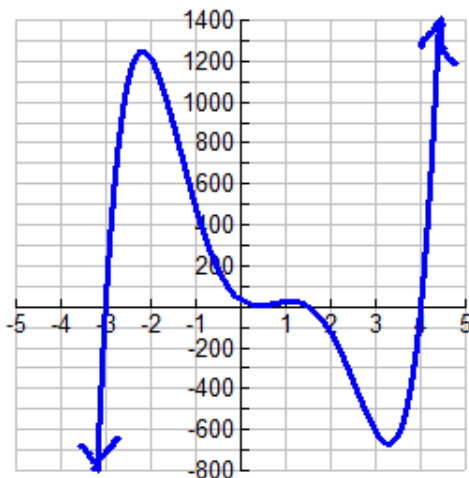
All zeros = _____

4.) $P(x) = 8x^4 - 19x^3 - 95x^2 + 142x + 120$



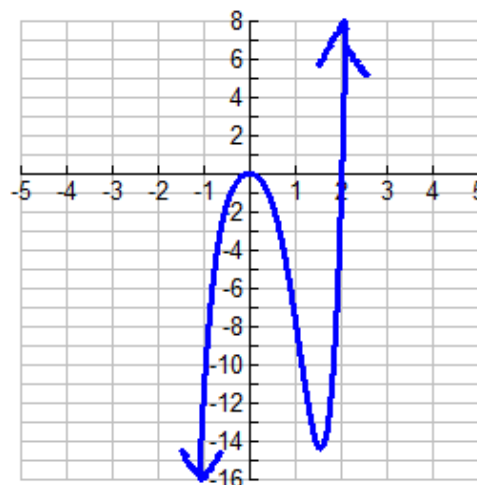
All zeros = _____

5.) $P(x) = 10x^5 - 33x^4 - 83x^3 + 259x^2 - 165x + 36$



All zeros = _____

6.) $P(x) = 3x^5 - 4x^4 - x^3 - 6x^2$



All zeros = _____

Directions: Find all zeros of each polynomial P (x). Must show work!

7.) $P(x) = 7x^3 + 19x^2 - 11x - 15$

All Zeros of P (x) = _____

8.) $P(x) = 4x^3 + 10x^2 + 4x - 5$

All Zeros of P (x) = _____

9.) $P(x) = 2x^4 - 9x^2 - 2x$

All Zeros of P (x) = _____

10.) $P(x) = 3x^4 - 16x^3 + 30x^2 - 24x + 8$

All Zeros of P (x) = _____

11.) $P(x) = x^5 + x^4 - 20x^3 + 20x^2 + 19x - 21$

All Zeros of P (x) = _____

12.) $P(x) = 12x^5 - 4x^4 - 241x^3 - 22x^2 + 1083x + 180$

All Zeros of P (x) = _____