A) Arrange the following expressions in an increasing order for the given value in each problem.

1) \((x + 2)(x + 4), \ x + 3, \ x^2 + x - 2, \ x^2 + 2\) at \(x = 2\)

2) \(x^3 + 2, \ 5x + 2, \ 6x^2 + 3x, \ 2x\) at \(x = -1\)

3) \(4u^2 + 2u, \ \frac{u}{2}\)

B) Arrange the following expressions in decreasing order for the given value in each problem.

1) \(\frac{9}{y} + 1, \ 5y - 6\)

2) \((z + 1)(z - 3), \ 5z - 2\)

3) \((x^2 + 5)(x - 2)(x + 6), \ 3x - 3, \ x^2 + 2, \ 3x\) at \(x = -2\)
A) Arrange the following expressions in an increasing order for the given value in each problem.

1) \((x + 2)(x + 4), \ x + 3, \ x^2 + x - 2, \ x^2 + 2\) \ at \ x = 2
   \[x^2 + x - 2, \ x + 3, \ x^2 + 2, \ (x + 2)(x + 4)\]

B) Arrange the following expressions in decreasing order for the given value in each problem.

2) \(x^3 + 2, \ 5x + 2, \ 6x^2 + 3x - 2x\) \ at \ x = -1
   \[6x^2 + 3x - 2x, \ 5x + 2, \ x^3 + 2\]

3) \(4u^2 + 2u, \ \frac{u}{2}\) \ at \ u = 4
   \[\frac{u}{2}, \ 4u^2 + 2u\]

B) Arrange the following expressions in decreasing order for the given value in each problem.

1) \(9y + 1, \ 5y - 6\) \ at \ y = 3
   \[5y - 6, \ 9y + 1\]

2) \((z + 1)(z - 3), \ z^2 + 1, \ 2z^2 + 7z - 5, \ (z + 1)(z - 3)\)
   \[z^3 + 1, \ 2z^2 + 7z - 5, \ (z + 1)(z - 3)\]

3) \((x^2 + 5)(x - 2)(x + 6), \ 3x - 3, \ x^2 + 2, \ 3x\) \ at \ x = -2
   \[x^2 + 2, \ 3x, \ 3x - 3, \ (x^2 + 5)(x - 2)(x + 6)\]