

Name : _____

Arrange & Order

Single Variable: S1

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 an increasing order for the given value in each problem.

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

2) $(z + 1)(z - 3)$,

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

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Answer key

Single Variable: S1

Arrange & Order

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

$x^2 + x - 2$, $x + 3$, $x^2 + 2$, $(x + 2)(x + 4)$

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 an increasing order for the given value in each problem.

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$z^3 + 1$, $2z^2 + 7z - 5$, $(z + 1)(z - 3)$

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

$x^2 + 2$, $3x$, $3x - 3$, $(x^2 + 5)(x - 2)(x + 6)$