

Name : _____

Arrange & Order

Single Variable: S3

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

1) $a^3 + 2a - 1$, $a - 5$, $a^2 + 1$, $5a^3$ at $a = 3$

2) $x^2 + 1$, $2x + 7$, $(x^2 + 1)(x - 5)$, $2x$ at $x = 4$

3) $3z(2z^2 - 1)$, $\frac{z}{2}$

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

1) $c^2 + 2c - 4$, 6

2) $(v + 2)(v - 10)$,

3) $(3b + 2)(2b + 1)$, $\frac{b + 1}{b - 5} + 7$, $2b^2 - 3$, $b^3 + 2$ at $b = 8$

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Name : _____

Answer key

Single Variable: S3

Arrange & Order

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

1) $a^3 + 2a - 1$, $a - 5$, $a^2 + 1$, $5a^3$ at $a = 3$

$a - 5$, $a^2 + 1$, $a^3 + 2a - 1$, $5a^3$

2) $x^2 + 1$, $2x + 7$, $(v^2 + 1)(v - 5)$, $2v$ at $v = 4$

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3) $3z(2z^2 - 1)$, $\frac{z}{2}$

$\frac{z}{2}$

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

1) $c^2 + 2c - 4$, 6

2) $(v + 2)(v - 10)$, $v^3 + 1$, $6v^2(2v - 5)$

$(v + 2)(v - 10)$, $v^3 + 1$, $6v^2(2v - 5)$

3) $(3b + 2)(2b + 1)$, $\frac{b + 1}{b - 5} + 7$, $2b^2 - 3$, $b^3 + 2$ at $b = 8$

$b^3 + 2$, $(3b + 2)(2b + 1)$, $2b^2 - 3$, $\frac{b + 1}{b - 5} + 7$