Name : _____ Score : _____

Single Variable: S1

Arrange & Order

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) $4u^2 + 2u$, $\frac{u}{2} - 5$, $2u - 1$, $u^2 + 1$ at $u = 4$

_____

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

1) $\frac{y}{3} + 1$, $5y - 6$, $y^2 - 1$ at $y = 3$

_____

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

_____

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

_____

Name : _____ Score : _____

Answer key

Single Variable: S1

Arrange & Order

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, $(x+2)(x+4)$

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

$5x+2$, $2x$, x^3+2, $6x^2+3x$

3) $4u^2+2u$, $\frac{u}{2}-5$, $2u-1$, u^2+1 at $u=4$

$\frac{u}{2}-5$, $2u-1$, u^2+1, $4u^2+2u$

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

1) $\frac{y}{3}+1$, $5y-6$, y^2-1 at $y=3$

$5y-6$, y^2-1, $\frac{y}{3}+1$

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

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

Name : _____ Score : _____

Single Variable: S2

Arrange & Order

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

1) $(s^3 - 6s + 1)$, $\frac{s}{3} + 1$, $2s - 4$, $s^2 + 7$ at $s = -3$

_____

2) $v^2 + 2$, $3v^3 - 5$, $7v^2$, $v + 1$ at $v = 1$

_____

3) $\frac{t}{2} - 1$, $3t^2 + 2$

_____

B) Arrange the fo he given value in each proble

1) $x + 4$, $(2x - 1$

_____

2) $(m + 6)(m - 3)$

_____

3) $(y + 6)(y - 2)$, $\frac{y}{2} + 5$, $7y - 3$, $y^2 + 2$ at $y = 4$

_____

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Name : _____ Score : _____

Answer key

Arrange & Order

Single Variable: S2

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

1) $(s^3 - 6s + 1)$, $\frac{s}{3} + 1$, $2s - 4$, $s^2 + 7$ at $s = -3$

$2s - 4$, $(s^3 - 6s + 1)$, $\frac{s}{3} + 1$, $s^2 + 7$

2) $v^2 + 2$, $3v^3 - 5$, $7v^2$, $v + 1$ at $v = 1$

3) $\frac{t}{2} - 1$, $3t^2 + 2$

$\frac{t}{2}$

B) Arrange the fo he given value in each proble

1) $x + 4$, $(2x - 1$

2) $(m + 6)(m - 3)$

$2m^2 + 3m - 1$, $(m + 6)(m - 3)$, $m^2 + 7$

3) $(y + 6)(y - 2)$, $\frac{y}{2} + 5$, $7y - 3$, $y^2 + 2$ at $y = 4$

$7y - 3$, $(y + 6)(y - 2)$, $y^2 + 2$, $\frac{y}{2} + 5$

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Name : _____ Score : _____

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 $a = 3$

_____

2) $x^2 + 1$, $2x + 7$, $(x^2 + 1)(x - 5)$, $3x$ at $x = -4$

_____

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

_____

B) Arrange the fo he given value in each proble

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

_____

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

_____

3) $(3b + 2)(2b + 1)$, $\frac{b}{4} + 7$, $2b^2 - 3$, $b^3 + 2$ at $b = 8$

_____

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Name : _____ Score : _____

Answer key

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 $a = 3$

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

2) $x^2 + 1,\ \ 2x + 7,\ \ (x^2 + 1)(x - 5),\ \ 3x$ at $x = -4$

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

$\frac{z}{2}$

B) Arrange the fo[illegible] he given value in each proble[illegible]

1) $c^2 + 2c - 4,\ \ 6$[illegible]

2) $(v + 2)(v - 10),$[illegible]

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

3) $(3b + 2)(2b + 1),\ \ \frac{b}{4} + 7,\ \ 2b^2 - 3,\ \ b^3 + 2$ at $b = 8$

$b^3 + 2,\ \ (3b + 2)(2b + 1),\ \ 2b^2 - 3,\ \ \frac{b}{4} + 7$

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Name : _____ Score : _____

Arrange & Order

Multi Variables: S1

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

1) $y^2 + 3xy - 9$, $\frac{y}{6} + 1$, $2xy(5x - 2)$, $x^2y + 5$ at $x = 1, y = 3$

_____

2) $(m + 2)(n - 3)$, $2m^2n(4m + 5)$, $3mn^3$ at $m = -1, n = 2$

_____

3) $2abc + 4$, $3a^2$ [illegible] $c = 1$

_____

B) Arrange the fo[illegible] he given value in each proble[illegible]

1) $(c - d)(2c + d)$,

_____

2) $(p + q)(p - r)$,

_____

3) x^2yz, $xy(x^2z)$, xy^2z at $x = 5, y = 3, z = 10$

_____

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Name : _____ Score : _____

Answer key

Arrange & Order

Multi Variables: S1

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

1) $y^2 + 3xy - 9$, $\frac{y}{6} + 1$, $2xy(5x - 2)$, $x^2y + 5$ at $x = 1, y = 3$

$\frac{y}{6} + 1$, $x^2y + 5$, $y^2 + 3xy - 9$, $2xy(5x - 2)$

2) $(m + 2)(n - 3)$, $2m^2n(4m + 5)$, $3mn^3$ at $m = -1, n = 2$

3

3) $2abc + 4$, $3a^2$ ... $c = 1$

a^2b

B) Arrange the fo ... he given value in each proble

1) $(c - d)(2c + d)$,

c

2) $(p + q)(p - r)$,

$pqr(3pq + r)$, $(p + q)(p - r)$, p^2q^3r

3) x^2yz, $xy(x^2z)$, xy^2z at $x = 5, y = 3, z = 10$

$xy(x^2z)$, x^2yz, xy^2z

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Name : _____ Score : _____

Arrange & Order

Multi Variables: S2

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

1) $ab^2c + 2abc,\ \ \frac{a}{2} + b,\ \ 2a + bc,\ a^2bc$ at $a = 2, b = 4, c = 5$

_____

2) $pqrs,\ 3p^2q(s + r),\ pq + 3r^3s + ps + 1$ at $p = 4, q = -1, r = 2, s = 10$

_____

3) $4uv^2,\ \ uv - 3,$

_____

B) Arrange the fc he given value in each proble

1) $m^2n - n,\ \ mn -$

_____

2) $x^2 + 2yz,\ \ (2x +$

_____

3) $(s + 1)(t - 2),\ \ \frac{t}{2} + 1,\ \ 2st - 1,\ \ st + 1$ at $s = 20, t = 30$

_____

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Name : _____ Score : _____

Answer key

Arrange & Order

Multi Variables: S2

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

1) $ab^2c + 2abc,\ \ \frac{a}{2} + b,\ \ 2a + bc,\ a^2bc$ at $a = 2, b = 4, c = 5$

$\frac{a}{2} + b,\ \ 2a + bc,\ \ a^2bc,\ \ ab^2c + 2abc$

2) $pqrs,\ 3p^2q(s + r),\ pq + 3r^3s + ps + 1$ at $p = 4, q = -1, r = 2, s = 10$

3

3) $4uv^2,\ \ uv - 3,$

B) Arrange the fo he given value in each proble

1) $m^2n - n,\ \ mn -$

2) $x^2 + 2yz,\ (2x +$

$3x^2yz^3,\ \ (2x + 6y)(y + 5z),\ \ x^2 + 2yz$

3) $(s + 1)(t - 2),\ \ \frac{t}{2} + 1,\ \ 2st - 1,\ \ st + 1$ at $s = 20, t = 30$

$2st - 1,\ \ st + 1,\ \ (s + 1)(t - 2),\ \ \frac{t}{2} + 1$

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Name : _____ Score : _____

Arrange & Order

Multi Variables: S3

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

1) $d - 1,\ \ cd^2 + d,\ \ 2cd - c,\ \ c^2 + 1$ at $c = 15,\ \ d = -10$

_____

2) $3a + b,\ \ cb + a,\ \ 2ab - 1,\ \ a^2b + c$ at $a = -2,\ \ b = -3,\ \ c = 4$

_____

3) $(m^2 + 3)(n - 2)$

_____

B) Arrange the fo he given value in each proble

1) $x^2y + 3,\ \ 2x -$

_____

2) $(u + 1)(v - 1),$

_____

3) $p^2qr,\ \ s^2 + t,\ \ st - qr,\ \ p^2 + 1$ at $p = 1,\ q = 3,\ r = -1,\ s = 2,\ t = 0$

_____

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Name : _____ Score : _____

Answer key

Arrange & Order

Multi Variables: S3

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

1) $d - 1,\ \ cd^2 + d,\ \ 2cd - c,\ \ c^2 + 1$ at $c = 15,\ \ d = -10$

$2cd - c,\ \ d - 1,\ \ c^2 + 1,\ \ cd^2 + d$

2) $3a + b,\ \ cb + a,\ \ 2ab - 1,\ \ a^2b + c$ at $a = -2,\ \ b = -3,\ \ c = 4$

3) $(m^2 + 3)(n - 2)$

B) Arrange the fo he given value in each proble

1) $x^2y + 3,\ \ 2x -$

2) $(u + 1)(v - 1),$

$uv + 2v,\ \ (u + 1)(v - 1),\ \ uv + 1,\ \ uv - 1$

3) $p^2qr,\ \ s^2 + t,\ \ st - qr,\ \ p^2 + 1$ at $p = 1,\ q = 3,\ r = -1,\ s = 2,\ t = 0$

$s^2 + t,\ \ st - qr,\ \ p^2 + 1,\ \ p^2qr$

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