

Name : _____

Factorial & Product Form

L2S5

A) Express the following in product form.

1) $n!$ = _____

2) $(2 + 3n)!$ = _____

3) $(-1 + 9n)!$ = _____

4) $(7n - 5)!$ = _____

5) $(4n + 7)!$ = _____

B) Express the

1) $(8 + 2n).(7 + 2n)$ = _____

2) $5n.(5n - 1).(5n - 2)$ = _____

3) $(8n + 6).(8n + 5).(8n + 4) \dots 2.1$ = _____

4) $(4n - 9).(4n - 10).(4n - 11) \dots 2.1$ = _____

5) $(-3 + 6n).(-4 + 6n).(-5 + 6n) \dots 2.1$ = _____

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Answer key

Factorial & Product Form

L2S5

A) Express the following in product form.

1) $n!$ = $n.(n - 1).(n - 2)...2.1$

2) $(2 + 3n)!$ = $(2 + 3n).(1 + 3n).3n...2.1$

3) $(-1 + 9n)!$ = $(-1 + 9n)...2.1$

4) $(7n - 5)!$ = $(7n - 5)...2.1$

5) $(4n + 7)!$ = $(4n + 7)...2.1$

B) Express the

1) $(8 + 2n).(7 + 2n)!$ = $(8 + 2n)!$

2) $5n.(5n - 1).(5n - 2)...2.1$ = $(5n)!$

3) $(8n + 6).(8n + 5).(8n + 4)...2.1$ = $(8n + 6)!$

4) $(4n - 9).(4n - 10).(4n - 11)...2.1$ = $(4n - 9)!$

5) $(-3 + 6n).(-4 + 6n).(-5 + 6n)...2.1$ = $(-3 + 6n)!$

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