

Name : \_\_\_\_\_

## Factorial & Product Form

L2S2

A) Express the following in product form.

1)  $(8 + 3n)!$  = \_\_\_\_\_

2)  $(6n - 4)!$  = \_\_\_\_\_

3)  $(7n)!$  = \_\_\_\_\_

4)  $(-3 + 4n)!$  = \_\_\_\_\_

5)  $(9n + 6)!$  = \_\_\_\_\_

B) Express the

1)  $(8n + 9).(8n -$  \_\_\_\_\_

2)  $(-2 + 5n).(-3$  \_\_\_\_\_

3)  $(n - 1).(n - 2).(n - 3)...2.1$  = \_\_\_\_\_

4)  $9n.(9n - 1).(9n - 2)...2.1$  = \_\_\_\_\_

5)  $(5 + 2n).(4 + 2n).(3 + 2n)...2.1$  = \_\_\_\_\_

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Name : \_\_\_\_\_

**Answer key**

**Factorial & Product Form**

L2S2

A) Express the following in product form.

1)  $(8 + 3n)! = \underline{(8 + 3n).(7 + 3n).(6 + 3n)...2.1}$

2)  $(6n - 4)! = \underline{(6n - 4).(6n - 5).(6n - 6)...2.1}$

3)  $(7n)! = \underline{\dots.1}$

4)  $(-3 + 4n)! = \underline{\dots n)...2.1}$

5)  $(9n + 6)! = \underline{\dots.2.1}$

B) Express the

1)  $(8n + 9).(8n - \dots + 9)! = \underline{\dots + 9)!}$

2)  $(-2 + 5n).(-3 \dots + 5n)! = \underline{\dots + 5n)!}$

3)  $(n - 1).(n - 2).(n - 3)...2.1 = \underline{(n - 1)!}$

4)  $9n.(9n - 1).(9n - 2)...2.1 = \underline{(9n)!}$

5)  $(5 + 2n).(4 + 2n).(3 + 2n)...2.1 = \underline{(5 + 2n)!}$

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