

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

## Factorial & Product Form

L2S1

A) Express the following in product form.

1)  $(6n - 2)!$  = \_\_\_\_\_

2)  $(8n)!$  = \_\_\_\_\_

3)  $(4n + 1)!$  = \_\_\_\_\_

4)  $(7 + 2n)!$  = \_\_\_\_\_

5)  $(-5 + n)!$  = \_\_\_\_\_

B) Express the

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

2)  $(8 + n).(7 + n) \dots 2.1$  = \_\_\_\_\_

3)  $(-3 + 9n).(-4 + 9n).(-5 + 9n) \dots 2.1$  = \_\_\_\_\_

4)  $(5n + 1).5n.(5n - 1) \dots 2.1$  = \_\_\_\_\_

5)  $(7n - 4).(7n - 5).(7n - 6) \dots 2.1$  = \_\_\_\_\_

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## Factorial & Product Form

A) Express the following in product form.

$$1) (6n - 2)! = \underline{(6n - 2).(6n - 3).(6n - 4)...2.1}$$

$$2) (8n)! = \underline{8n.(8n - 1).(8n - 2)...2.1}$$

$$3) (4n + 1)! = \underline{(4n + 1).(4n).(4n - 1)...2.1}$$

$$4) (7 + 2n)! = \underline{(7 + 2n).(7 + 2n - 1)...2.1}$$

$$5) (-5 + n)! = \underline{(-5 + n).(-5 + n - 1)...2.1}$$

B) Express the

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

$$2) (8 + n).(7 + n)...2.1 = \underline{(8 + n)!}$$

$$3) (-3 + 9n).(-4 + 9n).(-5 + 9n)...2.1 = \underline{(-3 + 9n)!}$$

$$4) (5n + 1).5n.(5n - 1)...2.1 = \underline{(5n + 1)!}$$

$$5) (7n - 4).(7n - 5).(7n - 6)...2.1 = \underline{(7n - 4)!}$$

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