

Name : _____

Factorial & Product Form

L2S3

A) Express the following in product form.

1) $(8n + 6)! =$ _____

2) $(-7 + 5n)! =$ _____

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

4) $(2n)! =$ _____

5) $(3n - 2)! =$ _____

B) Express the

1) $(6n - 1).(6n -$ _____

2) $(9n + 4).(9n -$ _____

3) $(2 + 7n).(1 + 7n).7n...2.1 =$ _____

4) $(-6 + 2n).(-7 + 2n).(-8 + 2n)...2.1 =$ _____

5) $4n.(4n - 1).(4n - 2)...2.1 =$ _____

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Name : _____

Answer key

Factorial & Product Form

L2S3

A) Express the following in product form.

1) $(8n + 6)! = \underline{(8n + 6).(8n + 5).(8n + 4)...2.1}$

2) $(-7 + 5n)! = \underline{(-7 + 5n).(-8 + 5n).(-9 + 5n)...2.1}$

3) $(9 + n)! = \underline{\dots 2.1}$

4) $(2n)! = \underline{\dots .1}$

5) $(3n - 2)! = \underline{\dots 2.1}$

B) Express the

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

2) $(9n + 4).(9n + 3)...2.1 = \underline{\dots (9n + 4)!}$

3) $(2 + 7n).(1 + 7n).7n...2.1 = \underline{(2 + 7n)!}$

4) $(-6 + 2n).(-7 + 2n).(-8 + 2n)...2.1 = \underline{(-6 + 2n)!}$

5) $4n.(4n - 1).(4n - 2)...2.1 = \underline{(4n)!}$

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