

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) $(8n + 9).(8n - 1) \dots 2.1$ = _____

2) $(-2 + 5n).(-3 + 5n) \dots 2.1$ = _____

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

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

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

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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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